

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22701	53069	A	22829	1	1188	MGAEPSLLTSLGTLWSEGERFQC MRAKIWERSRKGRFSTDVISP TKDSFAGPFQPISTLTVQHQRYY GLKVCVLPDPCKIRILKPNPQC VGKWEVEVAENEIQVFGGERF DINKYSKSPPPPTPQPLYLTAGF ASCRNHRKSEELREGKGESPGK SKPFHLQANFTVALVTTLQGDK HSQEA FIRPVAKAKTTCTYLSN VCEMKDFKRINCPDPFHKMAP KAKKEA\ PAPPKAEAKAKGFK GPRRQVLK\GVHNHKKRKRKK ERSRTFTHLSRRPGRPLR\RRQP \KYP SGRAAPRRNKLD\HYAIIK FPLT\TESA\MKKIEDNNTL\VF\I VELLKATTKNQIKQGC*RSLYD IDVGQGSTPWISAWMGEKKGI CSDLAPDLPIAFGMFANKI\WGFI
22702	53070	A	22830	1413	2197	RVEWRWYNVLPCLDVHSGPVD RRSHVMTAAEKPPFCPAWGQA VSQQSCALEPRTGEEGGKGIQG PASGLFPTGEEISVVPNRWLDA SLSPVILGVQ\GSQCLSCGVGQ EPTLTLEVRLGASSLGTQPQML SLLKPGSPQPWCCGTP*QDSVD GSFASSLRILAKALLCGPGFCPS LTLPSFCRKPVTIME\LYLGAKE S\KSFTFYRRDMG\LT\SSFESAA\ YPGWFLCTEPE\ADQPVRLTQL PENGGWNAIPITDFYFQQ\CD
22703	53071	A	22831	100	177	KRDHF*SRLQQVSRSVRWSSA TDSR
22704	53072	A	22832	610	1080	
22705	53073	A	22833	1169	1308	

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22706	53074	A	22834	1	1889	ACRRRAGTWTPPRPRGSGSRA MAGNCGARGALSAHTLLFDLP PALLGELCAVLDSCDGALGWR GLAERLSSSWLDVRHIEKYVDQ GKSGTRELLWSWAQKNKTIGD LLQVLQEMGHRRAIHLITNYGA VLSPSEKSYQEGGFPNLFKETA NVTVDNVLIPEHNEKGVLLKSS ISFQNIIEGTRNFHKDFLIGERG E/IFGGYQEGKIQTLYAVKLFK QEKKMCKKKHWKRFLSELEVL LLFHHPNILELAAYFTETEKFC LIYPYMRNGTLFDRQLQCVGDT APLPWHIRIGILIGISKTIHYLHN VQPCSVICGSISSANILLADDQFH PKLTDFSMAHFRSPLEHQSCCI NMPSS\SRKHLWY\MPEEYIRQ GKLSIKTDVYSFGIVIMEVLTGC RVVLDDPKHIQLRDLLRELMEK RGLDSCLSFLDKKVPPCRNF AKLFCLAGRCAATRALKRPSM DEIV*RALESTQASLYFAGDPP TSLKALRGPSPLFLEKVT SIPV VEDDEKPNNNLLPS**KALRMK RWPQK\TPF\EC SQP\EVWFLSLE QKAREARENEEACNMPSSS\CE ESWFPKYIVPS\QDLRPL*GK*K ILSSQA\SGHSC\RTKPVESSCSS KFSWDEYEYQYKKE

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22707	53075	A	22835	1	1560	RWERGGKRFRAADPMSALRRS GYGPSDGPYGRYYGPGGGDV PVHPPPLYPLRPEPPQPPISWR VRGGGPAETTWLGEAGGGDG YYPSGGAWPEPGRAGGSHQEQ PPYPSYNSNYWNSTARSRAPYP STYPVRPELQGGSLNSYTNGA YGPTYPPGPGANTASYSGAYY APGYTQTSYSTEV PSTYRSGN SPTPVSRGIYPQQDCQTEAPPLR GQVPGYPPSQNPGMTLPHYPY GDGNRSVPQSGPTVRPQEDAW ASPGAYGMGGRYWPSSAPSA PPGNLYMTESTSPWPSSGSPQSP PSPPVQQPKDSSYPYSQSDQSM NRHNF/CASVHQYESLGDQ*T MDDSRILLDSPSPSIVPEPSACM GNAHPVTHPANNQDQSSSLPEE CVPSDESTPPSIKKIIVLEKVQ YLEQEVEEFVGKTKDKAYWLL EEMLTKELELDSVETGGQDSV RQARKEAVCKIQAILEKLEKKR IMKGFITKWKPVNTLKEHLIW LITFLKCLLMTRSNTFQLFL
22708	53076	A	22836	8	207	TPVPRALRSPAGLEGSHLSSIST MMPAVMSVGKVTENGSGSPQGI KSPSKPPGPNRIG*RNQVSVHT
22709	53077	A	22837	459	5520	RQVRPAGLEGSDLSSINTMMSA VMSVGKVTENGSGSPQGIKSPSK PPGPNRIGRRNQETKEEKSSYN CPLCEKICTTQHQLTMHIRQHN TDTGGADHSCSICGKSLSSASSL DRHMLVHSGERPYKCTVCGQS FTTNGNMHRHMKIHEKDPTSA TATAPGRGDFASAKSSKRKLSH DAESEREDPAPAKKMVEDGQS GDLEKKADEVFHCPCVCFKEFV CKYGLETHMETHSDNPLRCDIC CVTFRTHRGLLRHNL
22710	53078	A	22838	164	434	
22711	53079	A	22839	23	242	
22712	53080	A	22840	187	325	
22713	53081	A	22841	1	130	NCPMCWPGQSPRPVST*GRNP PPKRRSVSAES*RHWPQSPSP
22714	53082	A	22842	614	774	QEPMRMCTMLANSSPSSSQATP PGL*SWNQPSLPARTLSRHEWT SCLGSSANL
22715	53083	A	22843	396	560	LFPHDGIKHKGKENP/PKGPPPP THPQTTPRPADAPLVATKSTLD QAWALLAVATS
22716	53084	B	22844	124	205	

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22717	53085	A	22845	1	2355	MVGSRRISGVIPFTRRAGIFS DPRANMQPLWAPVPPATFVPTS LPPVPTARPTSASCHCQQVPC AGLEVALPGNRTICWLSLWPS WQLDEDAQSPALESSSIRQFPT APRSGYPGTLCPSFLFGPRPRTC EYHSPVLCAPSSRASPSATT STRTLWGPAGSHPFVHNTR LSPDLCPGKIVLRALKESGAGM PEQHKDPRVQENPDDQRTVPE VTGDARSAFWPLRDNGGSPSFV PRPGPLQTDLHAQSSEIRYNHTS QTSWTSSSTKRNAISSYSSTGG LPGLKQRRGPASSRCQLTSLYS KTVSEDRPQAVSLGHTRCEKG ADTAPGQTIAPTASRPHINTSLH VEDKAISDCRPSRPSHTLSSLAT GASGGPPVSKAPTMDAQQDRP KSQDCLGLVAPLASAAEVPAT APVSGKKHRPPGPLFSSSDPLPA NSSHSRDSAQVTSMIPAPFTAA SRDAGMRRTSAPAAAAAAPP PSTLNPTSGSLLNEWMEAPHIS WPQPQLQHVPGRQ/NVRYNQR SQTSRTRS/CPQTKCQLQLPQLY GRPPGSKAEEG/PASSHCQLALS SSNTVSEDPQAVSSGHRCENK AGTAPGQTLAPRGGSRSQASR PHINTALHVEDKAISDCRPSRPS HTLSSLATGASGGPPVSKAPTM DAQQDRPKSQDSLGLLAPLASA AEVPSTAPVSGKKHRPPGPLFSS
22718	53086	A	22846	1	1200	MPEQDKDPRVQENPDDQRRVP EVTGDARSAFRPLRDNGGLS/PP FVPGPGLQTDLHTQRLGYRV TVEDLDREKEAAFQRINSALQV EDKAISDCRLSRPSHTLSSLATG TSGLPAVSKAPSMDAQQERHK SQDCLGLLAPLAPAAEVPSTAP MSGKKHRPPGPLFSSSDPLPATS SHSQDSAQVTSLIPAPFPAASM DAGMRRTSPGTSAPAAAAAAPP STLNPTLGSLLEWIEALHISGPQ PQLQQVPRGQNQRSQTSRTSSC PKRK/CHLQLLQLYGRPPGKA EEGPASSHCQLTSSNTVSED GPQAVSSGHTHCEKTADTAPG QTLAPRGGFPRSQASRPCRHKF PLLPRRRGEPLMLPPPELGYR VTAEDLDREKEVAFQRJKSALQ VEDKAI

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22719	53087	A	22847	2	1762	YHSKPVLCPSSRASPSAATLS TRTLWGPGAGSHPGVHNTRL SPDLCPGKIVLRALKESGAMP EQHKDPRVQENPDDQRTVPEV TGDARSAFWPLRDNGGSPFVP RPGPLQTDLHAQSSEIRYNHTS QTSWTSSSTKRNAISSYSSTGG LPGLKQRRGPASSRCQLTLSYS KTVSEDRPQAVSLGHTRCEKG ADTAPGQTIAPTASRPHINTSLH VEDK\AISDCRPSRPSHTLSSLAT GASGGPPVSKAPTMDAQQDRP KSQDCLGLVAPLASAAEVPAT APVSGKKHRPPGPLFSSDPLPA NSSHSRDSAQVTSMIPAPFTAA SRDAGMRRTSAPAAAAAAPP PSTLNPTSGSLLN\EWMEAPHIS WPQPQLQHVPBGQ/NVRYNQR SQTSRTRS/CPQTKCQLQLPQLY GRPPGSKAEEG/PASSHCQLALS SSNTVSEDGPQAVSSGHCENK AGTAPGQTLAPRGSPRSQASR PHINTALHVEDKAISDCRPSRPS HTLSSLATGASGGPPVSKAPTM DAQQDRPKSQDSLGLLAPLASA AEVPSTAPVSGKKHRPPGPLFSS SDPLPATSYHSRDTAQ

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22720	53088	A	22848	292	2053	GSVAWSPFSPSPSSLCLWDLPV APTLWGPAGSHPFVHNTRL SPDLCPGKIVLRALKESGAGMP EQDKDLRVQENPDDQRRVPEV TGDARSA/FLAPAGQWSPLSLC AQSRASADIPPCPEVRNQI*PDIP DHLDELMHQPKCHLQLLQLCG RLAGAKVEEGASGAKEQGRDA *AGQGPESQQNPDDQRTVPEV TGDARSTVRPLRDSGGLSPFVP RPGPLQTDLHAQSSEIRYNQTS QTSWTSSSTKRNAISSYSSTGG LLGLKQRRGPASSRCQLTSLYS KTVSEDRPQAVSSGHTRCEKA ADTAPGQTLAPRGGSPPRSQGS PRRRKIALPHR*GELQVEDKAI LDCRPSWPSHTLSSLATGASGE PPVSKAPTMDAQQDRPKSQDC LGLVAPLASAAEIPSTAPVSGK KHRPPGPLFSSSDPLPATSSHSR DSAQVTSIPAAFTAASMDVG MRRTRPGTSAPAAAAAAPPPST LNPTSGSLLNEWMEALHISGPQ PQLQQVPRGQ/NVRYNQRSQTS RTRS/CPQTKCQLELPQLYGRPP GTKGCRHEKNVLC SKLFEGFGF IFVGFFFFAYMGILQLLII

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22721	53089	A	22849	146	1789	RQPSTSGSSRSCPCARRSWWAR TARSGWWWELLGARRSPQTLH CPQATLITLPCPRPSSTTSGSAM T*RGPWRS PGCTTSFCPTSR/PV ERNIDQTDLHAQRSEIRYNQTS QISWTSSCTNRNAISSYSSTGG LPGLKRRRG PASSHCQLTLSSS KTVNSDKFDANDPILKDQTQE WSGSATFTSDGKIRLFYTDYSG KHYGKQSLTTAQVNVSKSDDT LKINGVEDHKTIFDGDGKTYQN VQQFIDEGNYTSGDNHTRLRDPH YVEDKGHKYLVFEANTGTENG YQGEESLFNKAYYGGGTNFFR KESQKLQQSAKKRDAELANGA LGIIELNNDYTLKKVMKPLITR GSSRPSIREDENGRSQKPVHPEG DMTMNIKKIVNQATVLTFTTAL LAGGATQAFAKENNQKAYKET YGVSHITRHDMLQIPKQQQNEK YQVPQFDQSTIKNIESAKGLDV WDSWPLQNADGTVAEYNGYH VVFALAGSPKDADDTSIYMFY QKVGDNSIDSWKNAGRVFKDS DKFDANDPILKDQTQEWRGEA
22722	53090	A	22850	500	1034	

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22723	53091	A	22851	1	2396	MDKYLLHGPPRPPPAIASRCLA RVPGCAYSSIMVALSLVPLCAH MPTPSGLEVALPGNRTICWLSL WPSWQLDEDAQSPALESSSIRQ FPTAPRSGISPLCAPHSCLGQGR GPASHPTSTQTLDISGVKTTPRR FSVILQDLCSILGDSCLQFHLHR VPQQVSAVLLRVSGASPSATT LSTRTLWPGAGSHPFVHNT RLSPDLCPGKIVLRALKESRAG MPEQDKDPRVQENPDDQRTVP EVTGDARSAFWPLRDNGGSPFP VPRPGPLQTDLHAQSSEIRYNH TSQTSWTSSNTKRNAISSYSST GGLPGLKQRRGPASSRCQLTSL YSKTVSEDRPQAVSSGHTRCEK GADTSPGQTIAPTGGSPRSQDS RPRRRKIPLPRRRGEPLMLPPP LELGYRVTAEDLHLEKETAFQR INSALHVEDKAIPDCRPSQPSHT LSSLATGASGGPPVSKAHTMD AQQHRPKSQDCLGLLAPLASA AEVPSTAPVSGKKHRPPGPLFSS SDPLPATSYHSRDSAQVTSLIPA PFTAASSDAGMRRTRPGTSAPA AAAAAPPSTLNPTSGSLLNEW MEAPHISWPQPQLQHVSRGQ/N VRYNQRSQTSRTRS/CPPRKCQL QLPQLYGRPPATKAEEG/PASSH CQLAHSSSNTVSEDGPQAVSSG HTRCEKKAGAS/RWASRF*STH YGCTAGQTQVPRLPGTGPSSI
22724	53092	A	22852	1	3392	MDKYLLHDP RPPPAIASRCLA RVPGCAYSSIMVALSLVPLCAH MPTPSGLEVALPGNRTICWLSL WPSWQLDEDAQSPALESSSIRQ FPTAPRSGYPGTLCPSFLFGPRP RTCEYHSKPVLCA PSSRASPSA TTLSTRTLWPGAGSHPFVHNT TRLSPDLCPGKIVLRALKESGA GMPEQDKDPRVQENPDDQRTV PEVTGDARSAFWPLRDNGGSPF FVPRPGPLQTDLHAQSSEIRYN HTSQT SWTSSST
22725	53093	A	22853	40	409	WKM R HETRYNVLVSRGVGCH RLFFLNGVFEHLGRAFVQRRKV DTEHQLLRAAVPANQEHRGLT QSQHVDGHSLLLLTL PNSFLCQI QEPSLG\SGSGALSGNV RIRPQA QEAP EEP SVLTLLW
22726	53094	A	22857	3	220	

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22727	53095	A	22858	1	356	MAGPVKDREAFQRLNFVYQVS LRQGPHGDGARRPRVTAPLPQ AAHCVLAQDPENQALARFYLAH TERTIAKRLVLRDPSVKEELL CRGCSSLLVPGLTCTPAPDRRC RGQRWTGTDLP
22728	53096	A	22859	2	270	
22729	53097	A	22860	2	364	IFSALPAPRRKVGLNLAPVTEPR DQPWAMIIDVFISRYSGSRGQPR QTLTKGELKVLMEKELPGVFL QSGKDKDAVDKL/LKDPGRPM GDAQGGTFSEVHPCSVAAIT/SA CHK/YFE/KAGLK
22730	53098	A	22861	282	469	DCGSELQAPPPPSLPGPLCPSIM PA/PPYASPPMMPMMGPPFRGM MPVGLAPGPMLLQYNTCS
22731	53099	A	22862	7	522	SVWWSNGLQSNMPKFYCDY CDTYLTHDSPSVRKTHCSGRK HKENVKDYYQKWMEQAQSLI DKTTAAFQQGKIPPTPFSAPPPA GAMIPPPPSLPGPPRPGMMPAP HMGPPMMPMMGPPPPGMMP VGPAAGMRPPMGGHMPMMPG PPMMRPPARPMMPVTRPGMTR PDR
22732	53100	A	22863	3	455	WFLIHDRTHTGEPYKCNCEV KAFHRSTCLHAHKRTHTGEP YECNQ*GKAFNSSHSFQIHRT HTGEKPYECKECGKAFKGPSSV RRHERTHSTKKPYECKHCGKA LSYLTSFHNHLMHTGEISHTC KICGKAFYSPSVIQTHT*THT
22733	53101	A	22864	1	1665	
22734	53102	A	22865	1	2650	

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22735	53103	A	22866	107	2384	MFGVHGTFLGIESRPPLLSLSPS LLYTCEMFQDPVACEDVAVNF TQEEWALLDISQRKLYREVML ETFRNLTSIGKKWSDQNIYEY QNPRRSFRSLIEKKVNEIKDDSH CGETFTQVPDDRNFQEKKASP EVKSCDSFVCAEVGIGNSSFN SIRGDTGHKAYEYQEYGP KCQPKNKKAFRYRPSIRTQER DHTGEKPYACEKCGKTFISHG IRRHVMHSGDGPYKCKFCGK AVHCLRLYLHERHTHTGEKPYE CKQCGKSFTYSATHRIHERHT GEKPYECQCGKAFHSSSSFQA HKRHTHTGGKPYECKQCGKSFS WCHSFQIHERHTHTGEKPECSK CNKAFRSYRSLRHKRSHTGEK PYQCKEKRKAFTYPSSLRHER THSAKKPYE/CSFYHERHTHTG EKPYECKQCGKAFCAPHLRR HGRTH/S/AEKPYECKEKGAFR SASHLQIHERHTQTHIRHSGERP YKCKTCGKGFYSPKSFQRHEKT HTAEKPYECKQCGKAFSSSSSF PYHERHTHTGEKPYECKQCGKA FRSASILQMHAGTHPEEKPYEC KQCGKAFRSAPHLRIHGRHTHTG EKPYECKEKGKAFRSAKNLRIH ERTQTHVRMHSVERPYKCKIC GKGFYSAKSFQIHEKSYTGGKP YECGLQLPRTAAESVDSEKLQG PGKQETHVQLLSLYCLRRVLDC
22736	53104	A	22867	1	391	MKEHIERNPVTIKNVVKPSINT VPLEDMKAHTGEKPYERQKCE LNQRLRDYAFQYHESNSGVVS ADSETKSGHSGCLIKEMKNATK THNGITGGIIFNANHWRNTIY TRIH/GEKSCDYKKCGKAFNQ YSSLRHESHTGEKPYERQKC ELNQRLRDYAFQYHESNSGVV SADSETKSGHSGCLIKEMKNAT KTHNGITGGIIFNANHWRNTI YTRIHINKQEKYQATHVSYAAN
22737	53105	C	22868	179	289	
22738	53106	A	22869	3	206	

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22739	53107	A	22870	1	855	MPRAEPRATLGEQEKAGLPLG AWRLYLLRHFRKQTELRRSGSR DVTGALLVAAAVASEAVGSLR VAEGGPNTLLLQVLRISWPWC NKLKTMEERKVKRRSPKSFSA HCTQVVNVQKKMSIPVSK\STG FSNPASQVNFSTRPKVKKEVM K\EKTKPQGLEEGQRHSSQLPIQ HSFLT\DVSRCSRKMERGLLSL\ LNDFHSW\KTFKHFGN\EC\SEQ MEH\YSG\ELQEKLARLNLELYG ELEELPEDKRKTASDSNLDRL SDLEELNSSIQKLHLA\DAQDVP
22740	53108	A	22871	67	598	SIRRHCGQRCLVRIRIWPLKLPP RLAVREGLRCGTLRDVMPPSM SGVVVGPPGPAPPGPCGDTTSGP APGTFGQASAPVSPRRGHGEY LCSSPTPVFFPGLWQPPRAGFTA PERSWSCRGPRWQLRAAWAGR LSSSPVSALLTFKVII\STGLLFG PLGGWKILSSLPEIFANLAT
22741	53109	A	22872	1	372	
22742	53110	A	22873	1	3961	FALAPEAGFYSLGQQPSTRISGS GCVHPVRVWPFSIEPAIGTLNV GESMQLEVEFEPQSVGDHSGRL IVCYDTGEKVFSLYGAAIDMN IRLDKNSLTIEKTYISLANQRTIT IHNRSNIIAHFLWKVFATQQUE DREKYSKVTAVFSIAASSNSRF ALYESSYNSQRSPSEWACDDLI KEEKDETDEFEECITDPLLREH LSVLSRTFANQRRLVQGDSKLF FNNVFTVEPLGWSEKEMAEIR DVQKKDTKV
22743	53111	A	22874	1248	1716	WYAEQSAHEATAQLSTPMAIR RAVVMPEQRNRTKKEY/SLRI PFGLPGDRMCFFTHRND/PTG NEVTPPSLAADLGQQFGGDAT DRQPWMIHQMLIHQGEQLCF VEHGINMLRLGEILHLAATRHE AHFLAFRQFFNHQRSCFALNLA RQDRITDF
22744	53112	A	22875	478	663	
22745	53113	A	22876	508	884	RQRHPDQRPGRSLFHGHGMCP TTPLQQQVDSQHNGDNNSESA P*QRRADSIHRSSLHIKKRPSE DVSRCFLCIDLAFRQGFTFNKK GIRVRIPFGLPGDRMCFFTHR DDRPMKLLPFAGNKV

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22746	53114	A	22877	1	506	AFCRFSILVGSAFISETDMCLLC PFIGKAISVRLQYFKHETKQSI CLGNQKSPLVCPFFGEQGLDSS SSLDLPSSPNAPTLCPCVQPPR GPVSVSVPSVMGSRAPLLSA *LFVSVILGRMVILKNPGVLGQ RQAGPSPGAPGLPSPSVRAPLG HKCSERSPSAT
22747	53115	A	22878	621	877	RRRRRKQRRKQPWSSPARGA *PGPRRPSLRAAGTRRRRKRA SWTRCSNTCPGRCRTCSRSNQA SCPSLLHLLLLFGSFFSFY
22748	53116	A	22879	1	1339	MPSYKGCGETQRHATNGTAAP PRSSCRGDAIKLPHAEKKEGR PPASTSYPLRLGTRSARSSSHC WCTSWEDPPEATAGEEKRHPK SPAVCCGEGTVLTASTVTWRA EPARGEIWARLCPRDRPGSRAA AVIWERPCCDRLLADRTGPPNSS EPHCRAATIPLTWPLPEGQTLT LKALAKMAAPALLLLALLLPV GAWPGLPRRPCVHCCRPAP/L WTLCPGEKGEAGVRGRAGRS KEGAAIGCPGPAGPQSARRGSV GPPGAACRRAYAAFSVGRREG LHSSDHFQAVPFDTELVNLDGA FDLAAGRFLCTVPGVYFLSLNV HTWNYKETYLHIMLNR/QAA/V VLYAQPSERSVMQAQSLMLLL RRATPVWSVPEELPAVLPGQDE LGSLQLHAHHPLADGLVRHEL QPGLAGSSRTGHLVFRTDHGLR QHASHGCPVGPLHVP
22749	53117	A	22880	532	783	VGSTRGIVEGLIFILGEGGECYY PRSLFTVANFTVGKRV\KTLNC PSTDKWINKMCHIHTVEYYSDI KRNEIPMRATCRQTLKA
22750	53118	A	22881	275	720	TPIHNCFKENKIPRNPTYKEHEG PLQGELQTTSQGNKRGYKQME EHSMLMG\GRINIMKMAILPKVI YRFTIPIKLPMFTFTELEKTTSKF IWNQKRARIAKSILSRKNKAG/ AHHAT*LQTLQGYNSQNSMVL VPKQRYRPMEQSPQK

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22751	53119	A	22882	1	609	MGRNQSRKAENSKNQASSTP KDHSASPATEQSWMGNDDEL TELGFRKSVMTNFSQLKEDVRT HHKEAKNLEKRLDKWLTRINSI EETLNDLMELKTMARELRDTC TSFSSRFDQVEEGEIQTIREYY EHL YANKLENLEEMDKFLDTY TLPRLNQEEVESLNR PITGSEIE AIINSLPTKKIPGPDRFTA*RRP* MT*WS*KPWHENYVTHAQASV ADSIKWKKGKYK\HHQRIL*TP LRK*TRKSRRNG*IPGHIHSPKT KPGRS* IPE*TNNRF*N*GNN**P TNQKNSRARQIHSQILPEVQRG
22752	53120	A	22883	191	564	PNARKLRTLKKDHSPD**RRKL RKIK*MQ*KMIKGISQ\RSRNT NYHQRTL*TPLHK*TGKSRRNG *IPGHIHPPKSKPGRSQIPEYTNN KI*N*GSN**PINQKKSRTGRIHS QILPEVQRG
22753	53121	A	22884	337	589	TRRSRRNG*IPGHIHPPKTKPGR SRIPE*TNNRL*N*GSS**PTNQK KPRTRETD SRILPEVQRGAGTIP SETIPNNRKRGTTP
22754	53122	A	22885	162	539	TRKSRRNG*IPGHIHPSKTKPGR S* IPEETNNKF*N*GSN**PTNQK KPRTRQVHSRILPEPISHGMGKS WKQSL*KPAQDKAVPSLIAPIQ HIIGSSGQGNQARERNKGYSNR KRGSIQVSVCR
22755	53123	A	22886	329	459	NDDTFRKPHRLSPKSP*AADKQ LQQSLRIQNQCAKLRSIPIHH
22756	53124	A	22887	58	440	GLSRQFSPHSVNKAAGEVPTGR GPPQLSKANVARLPLSIPPLWA GHLWKKGGSPSQGIIDKTLISLG QST*GKGQLWVQLQRT*AFLPA GSEESSGSPSTA\PNSAKGQTPS SSGSLTRASSSSLYLW
22757	53125	A	22888	219	332	NEGKNLKGSRERNTNYHQRT Q*TPLHK*TRKSRRNG
22758	53126	A	22889	1295	1435	QNQRQKPHDYLNRCRK/W/HFD KIQQPSMLKTLNKL GNDGTYL RIIRDI

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22759	53127	A	22890	2	648	YRFSGPTIRSIQNHTTHNQGRK WHKKGIKKPRAQRYESLKGPE V*PSGQGVTCLLRADWLSPLL SGTYVVGPKFLRNTRFAKKHNK KGLKKMQANN\AKAMSARAE AIKALVKPKEVKPKIPKGC/RR KLRDFAYIAHPKLWGRRCFVA RFCQGASGCSGPKGKAKVPKA KVKVS/PKAKAKAKAKDQTKA QAAAPALV\PAQAPKRTQAPTK ASE
22760	53128	A	22891	3	370	QMYCVFNERNEDACRY/GS/AIG VLAFLASAFFLVVDAYFPQISN ATDRKYL\VIGDLLFSGVLASLA YQRYKAGVDDFIQNYVDPTPD PNTAYASYPGASVDNYQQPPFT QNAETTEGYQPPPVY
22761	53129	A	22892	1	297	
22762	53130	A	22893	3	713	GGSGGDGDMESGAYGAACA GGSFNLRRLTQPV\VARAVV L\VFALIVFSCIYGEYSNAHES KQMYCVFNERNEDACRYGSA\IG VLAFLA\SA\FFLVVDAYFPQISN ATDRKYL\VIGDLLFSALW\TFL WFR/VGFCFLTQWAVTK\PKT VLVGADSVRAAITFSFFSIFSWG VLASLG\YQRYKAGVDDFIQNY VDPTPDNTAYASYPGASVDN YQQPPFTQNAETTEGYQPPPV
22763	53131	A	22894	3	219	
22764	53132	A	22895	1445	1777	PVHLGSTCHQCRQKTIDTKTNC RNPRLGA/CRGQFCGPCLQNR YGEEVRDALLDPNWHCP\HCR GICNCSFCRQRDGRCATGVLVY LAKYHGFNVHAYLKSLSKQEF EMQA
22765	53133	A	22896	3	337	
22766	53134	A	22897	425	1209	TMSSTQFNKGPSYQLFAEIKNQ LLFKCDPQKQAALCSWIEGLTR LSFSPDFQKSLKEGIVLCTLMN KLGSVPKI/NRLMQNWHQLENL SNFIKAMVGYDMNPMDLFEAN DLFESRNMTQNRIL/P/PLDHSTI SLQMGANKRSSQ/VGMTAPGTP QHIYNTKLGAHKCDNSSMSLH MGDTQSANHSVQGFGLGQQIY YPKYCPQ/GPAASGAPLDAGNC PGPGEAPEDPPCSQEEATTEAPE HAGSLHHRPVVWVGIFLYFRL SFFFL

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22767	53135	A	22898	156	559	QHIRETPGAQVHSCGK WNPQA LWRTAWQLLT/DTKHTLGKPPS /MPHLVIYPLEISC\HTKTCTRML IASFFIITKTWKRPRCPSVDKWK NKPWCIIHTGLLSSTVPPGEPGC PIPELSGLLMGLQTTSSRCSVRQ VW
22768	53136	A	22899	161	359	
22769	53137	A	22900	151	383	
22770	53138	A	22901	238	546	PQEHIMEHLEGVINKPRGRRCR PQELQLHYLQKCMDYDGNNEL DGFRTLPPQSTHV\HKEEGSEQ APLMSEDEL\NIIDGVLRDDDK NNDGY\IDYAEFAKSLQ
22771	53139	A	22902	1	819	MAAEDKLLLPQLPELFETSKQL LDDVEVVTEPAGSRIVQKKVFK GLDLLEKAAEMLSQ/DLVAEL ELPKTKNSAE\NHTANFSMAYP SLIAMASQRQAKRERHKQKEL EHRLSAIKSAVETGQADDERVR EYYLLHLQSLEEIESIDQEIKILR ERDSSREASTSNSSRQERPPVKP FILTRNMAQVKVFGAGYPSLAT MTVSDWYKQHWKYGALPDQG IAKATPEEFRKAAQQQEGQEEK EEEDDEQTLYRVREWDDWKGI HPRDYGSQQSMG
22772	53140	B	22903	238	410	
22773	53141	A	22904	1	638	VAELELPKTKNSAE\NHTANFS MAYPSLIAMASQRQAKRERHK QKELEHRLSAIKSAVETGQADD ERVREYYLLHLQSLEEIESIDQE IKILRERDSSREASTSNSSRQERP PVKPFILTRNMAQVKVFGAGYP SLATMTVSDWYKQHWKYGAL PDQGIKATPEEFRKAAQQQEG QEEKEEEDDEQTLYRVREWDD WKGIHPRDYGSQQSMG

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22774	53142	A	22905	3	1083	RGNSRLRYSHDELQLPRLPEL FETGRQLLDEVEVATDPAGFR IVQEK\VFKG\LDLLE\RAAEML \SQSTLFGRECRFWKDLSPHLI TFWGP\AFQGA\LPKQVNPSCR LRILQRAAREHFINYLTQCHC YHVGQSFE\PKTMNNSAENH TANSSMAYPMLGAM\ASQRQA KIORYKQKKELEHRLSAMKSA VESGQADDERVREYYLLHLQR WVDISLEEIESIDQEIKILRERDS SREASTSNSSRQERPPAKPFILT RNMAQAKVFGAGYPSLP/TLW TVSDWYEQHRKYGSITGFRGIA KSAPEGISGKAAQQQEEQEEKE EEDDEPNNFHRRAREWDDWKD TPSLGAYGNRQNMG
22775	53143	A	22906	30	457	
22776	53144	A	22907	401	1509	MWKMNCSSLQSKQMCNQLPP GSTRDGSWKFRQDPRLGKNA/C DCDSCIASEFGVRYPTIKLLKG DLAYNYRGPRTKDDIIEFAHRV SGALIRPLPSQQMFEHMQKRHR VFFVYVGESPLKYVTLKEMP AVLVFKDETYFVYDEYEDGDL SSWINRERFQNYLAMDGFLLYE LGDTDLNASSLRERKLILPEDIP LYVGKLVALAVIDEKNTSVEHT SELTVP TVVVLNTSNQQYFLD RQIKNVEDMVQFINNILDGTVE AQGGDSILQRLKRIVFDAKSTIV SIFKSSPLMGCFGLPLGVISIM CYGIYTADTDGGYIEERYEVSK SENENQEIEESKEQQEPSSGGS VVPTVQEPKDVLEKKKD
22777	53145	A	22908	53	543	LPISSLRTQTLFSSPLFPQHFEHY LALVSVLPFQLGRGRTAPAKKG GEK/RKGHSAIN EVVIQEY TINI HKRIHGVRFKKRAPRALREIPK FAIKEVETLSVRIDSRFNKALCA KGIRNVPYRIRVQLSRKRNEDE DSPNKRYTLVTYVPVSTFKNVQ TVHVHEN
22778	53146	A	22909	106	491	IGKGTNELMYGEK/RKGHSAIN EVVIQEY TINIHKRIHGVRFKKR APRALREIPKFAIKEVETLSVRI DSRFNKA LCAKGIRNVPYRIRV QLSRKRNEDE DSPNKRYTLVTY VPVSTFKNVQTVHVHEN
22779	53147	A	22910	1	321	

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22780	53148	A	22911	313	402	R*GGEKKKGRSAINEVVTREYT INIHKRIHGVGFKRAPRALKEI RKFAMKEMGTPDVRIDTRLNK AVWAKGIRNVPIRIRVRLSRKR NEDEDSPNKLYTLVTYVPVTTF KNLQTVNVNEN
22781	53149	A	22912	1	3801	
22782	53150	A	22913	2	535	GGGMADTVLFEFLHTEMVAEL WAHDPDPGPGVSAGLRGEEAG ATKGQKMSLSVLEGMGFRVQG ALGERLPRETAFREELDLVKF LCKDLWVAVFQKQMDSLRTN HQGTYYVLQDNSFPLLLPMGSG LQV/YLEEAPKFLAFTCGLLRSA LYTLGIESVVTASVAALPVCKF QVVIPKS
22783	53151	A	22914	1	201	GDLPWEINPLSSCSLLHEKDPPT TSGPQT/DQPKKHHTNFKSGP/T GNRTVQLTWQPLPEPELEWPK AL
22784	53152	B	22915	226	522	
22785	53153	C	22916	1	705	
22786	53154	C	22917	1	462	
22787	53155	C	22918	1	505	
22788	53156	B	22919	1	1059	
22789	53157	C	22920	1	411	
22790	53158	A	22921	1	212	LTSFLHCCLSHHYHGAQIHPRH FLHLICRCHCHQYCHHAYLDPC PQDSHHLHWCWQPLPEPELELRP RLSD
22791	53159	B	22922	1	864	
22792	53160	B	22923	1	635	
22793	53161	B	22924	1	874	
22794	53162	A	22925	1	566	MPSVRTGDPILHAHTLNPAVW LAWAVEGEGSLTNIWICPWQI EPLRHLAYTPGSDATSLTVPTR VISPLCVDSWLFDTPLMKTHAP ERTFLSFPAAAKRAHLCLVAS NCDKPMYVKLVKAHCAEHQIN LIKGDNDKKLGEWEGPCTIDRE GKPKVVGCSCAVVKDY/GKE SQAQDVIEQYFKCKK
22795	53163	A	22926	59	602	PTAMVEEGIAAGGVMDVNTAV QEVLTALIHDLARGIREAAK ALDKYVYQSQYCGFLQPEQNC HPREEGMEFMVLAQKF*MASV LPET*EK\RQAHLCLVASNCDEP MYVKLVEALCAEHQINLIKVD DNKKLGEWVGLACKIDREGKPR KVVGCSVVVKDYGKESQAK DVIEEYFKCKK

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22796	53164	C	22927	135	293	
22797	53165	B	22928	20	325	
22798	53166	A	22929	677	1031	TPTMCLRSHPLPLALVSVILSFP QPSFSSSLINSSWSSPRSSLSSSS RSPSSGRVNLHPPQTPSSH*SHL SSRSCCSAPLLTYHSSSLLLVCS VPFPFFPGFPGENPLFVLSGSAP
22799	53167	A	22930	1	1011	MCLRVIIFTIGAVSVILSFLSLFFII LDQLQLVIPQSSSLSSSSNLEDPY SESYAAARRPDASTEPAPAG KSSAEYRAHFLAVSTEAEIRIRA DLVLRARPLGPAHPRTLWPTPP AGPFCRMVAHNQVA\ADNAVS TAAEPRRRPEP/SPSSSSSSPAAT ARPRPCPAV\PAPAPGDTHFRTF RSHADYRRITRASALLDA\LG YWGPLSVHG\AHEPLRAEPVGT FPVRDS\QRNCFALSVKMAS GPTSIRVHFQAGRFHLDG\SRES FDCLFELLEHYRGGSRADLLGA TLRQRRVRPLQELCRQIRIRPP VGAREN\ARIPLNPLVLRDY\LSS FPFQI
22800	53168	B	22931	180	1466	
22801	53169	A	22932	1	207	
22802	53170	A	22933	408	3758	CLQQGPGGNQHCSHREEAPAV AACQEPPGHSEPESVLPLGAPP SEEDGRQQVGSSRLRHIMAEMI ATEREYIRCLGYVIDNYFPEME RMDLPQGLRGKHHVIFGNLEK LHDFHQHFLELERCQHCPLA VGRSFLRHLIGQKQFPESPSGER PGLTSSHAPCPWMPHYLPEGPA CPVLRIPCEAFNWKHVECTDPV VSPPKQSPLLQEEQFGMYVIY SKNKPQSDALLSSHGNAFFKVI PLGPPPTACPALS
22803	53171	A	22934	3	355	EAAELDAMCTATRQWSRAGQ GVTGRPCQGRLLRCGLRSTITP KPIPGGHRKKPLLGA\GKHTLS YVERWHWEGHSGI*TRDRQNF ERRLTVPPSRQPFAPTDETRCG DDRISFCNYV

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22804	53172	A	22935	1928	5312	CLQQGPGGNQHCSHREEAPAV AACQEPPGHSEPEVLPLGAPP SEEDGRQQVGSSRLRHIMAEMI ATEREYIRCLGYVIDNYFPEME RMDLPQGLRGKHHVIFGNLEK LHDFHQHFLRELERCQHCPLA VGRSFLRHLIGQKQFPESPSGER PGLTSSHAPCPWMPHYLPEGPA CPVLRIPCEAFNWKHVECTDPV VSPPKQSRLLFQEEQFGMYVIY SKNKPQSDALLSSHGNAFFKDK QRELGDKMDLASV
22805	53173	A	22936	3	306	
22806	53174	A	22937	3	460	LQRQRQHPAAAPVVRCTFC FTDIVIMPKRKSPENTEGKDGS KVTKEPTRRSARLSAKPAPPK PEPKPRKTSAKKEPGAKISRG KGKKEEKQEAGKEGTAPSENG ETKAEIHSRSTVNVSTSRGTP PSTLSVKGQIETVRVKGTEN
22807	53175	A	22938	3	285	SSCPAREQLQRQRQHPAAAPV PVRCTFCFTDIVIMPKRKSPEN TEGKDGSKVTKEPTRRSARLS /AVFV*FKLSLQKPAPPKPEPKP RK TSA
22808	53176	A	22939	1	413	
22809	53177	A	22940	2	454	AEVQVEEAGLRRALRVSSCSGR GSIQRRFYAVPVRCTFCFTDIV IMPKRKSPENTEGIDGSKVTKE EPTRRSARLSAKPAPPNPEPQPR KTSAKKEPGAKISRGAKGKKE EKQEAGKEGTAPAENDETAE EAQKTESVDNEGRMNCP
22810	53178	B	22941	55	186	
22811	53179	A	22942	2	397	
22812	53180	B	22943	339	470	
22813	53181	A	22944	1	139	
22814	53182	A	22945	1	416	MPLLYHLSCAYVQQCNFANP VVSALCTCLVKPVVEKCTPYA VLLEALALRNVRQLEDLVIEAV YADVLRGSMQDRNQRLVDYS IGRDIQRQDL SAIARTLQEWG/C HQHLLSLRSAASQRQQCGYHK LHDKQRLLRG
22815	53183	A	22946	315	570	

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22816	53184	A	22947	933	1841	RPAEPDPGSGHPEPKSPTLSAV MSAEVKVTGRNQEQLLLAKS A\KGAVLATLIHQVLEAPGVY VFGELLDMPNVRELAESDFAST FRLLTVFAYGTYADYLAEARN LPPLTEA\QKNKLSDTFSVV\TL AAKVKCIPYAVLLEALAL\RN RQLEDLVIEAVYADVLRGSLDQ RNKRL\AEVDYSIGRDIQRQDLS AIARTLQEWCVGCEVVLSGIEE QVSRANQHKEQQL\GLKHQIES EVANLKKTIKVTTAA\AAATS QDPEQHLTELREPAGVTNQRQ P\SKKASKGKGLRGS AKIWSKS
22817	53185	A	22948	1	1319	
22818	53186	A	22949	365	1331	RAGGGAPWRFTGT FATVAPET AADLSLHRHLLSRTTSAWGTA CITVPIEPPTWPTWAVPIQWGG SATCIQEDKLRQGILYGYSQQV NQAMDSGLRPVVDSVN AIRVP QDYVTQSVPLREMNGSLGVLA QQLQNAKLQADAAHSALKQSD DLKPVFDQAFTKVVTTPADAL QPLIPAAQTFTQQLVMVGDIYA QQGTQECGKTF SRASYLVQHS RIHIGKKPYECKECKGAFSSGS YLVQHQRHTGKPYECNCKG KAFTVYQGQLIGHQSVHTGKPF ECKECKGAFRLNSFLTEHQRVH TGEKPFKCKKCGKTFRYSSAP
22819	53187	A	22950	2	206	GGGQGATSFGRPESGFIRHQPPP PCRRSSTPTRSKLYTL\SAPE*RS VPTSAPGPQDRPPGSVSKKSW
22820	53188	A	22951	571	1102	MGSVSLGNPQGPQFTRLPLAN VIHPTFFWETGPRGADSLGAKG RKWQPTFTSRCNLKVYLGRAG SQAATGGPSPSLPNLHVKKLRP RKAEAWPGRRNTGKVSGR/LA ALRAPYGESFARAAGPRDAPS/ QQPRPQPEHAPT LISLGSNFGG MVEESWCRMNPD SGRPKEVAP WPP PSTK
22821	53189	A	22952	1	591	MGP HWKDFKEIDVKKYIDALSI HTYTHTHTHHADITDGDHGG GALLELEINSHLKVQFRELNITA AKETEDGGGGKAIIFVFPQLK SFQIQVWLRRILPKPTRKSCT\ QNMHWPPRSRTLKAMRDSIPE DLVFPSEIMCMRIHV KLDGSRL IKAHLDKAQYHVERNAETFS GVYMKLTGKDINVEFPEFQL

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22822	53190	A	22953	2	508	APPFELPRAAGIRHEGKFSQEK AMFSSSAKIVKPNGEKPDEFES GISQALLELEMNSDLKAQLREL NITAAKEIEVGGGRKAIHIFVPVP QLKSFQKIQVRLVRELEKKFSG KHVVFIHRRILPKPTRKSRTK NKQKIRPRSRTLTA VHDAIPEDL VFPSEIVGKRNR
22823	53191	A	22954	145	395	
22824	53192	A	22955	536	717	
22825	53193	A	22956	1	729	
22826	53194	A	22957	1	1158	
22827	53195	A	22958	1	2869	MAHLRSCSSLYQPGHLLPPHN PIQDHPLTAPSLTHLTRRAYFTD EKTGGQSAYAVSLLRECVKL RPSDPTVPLMAAKVCIGSLRW MAAKHLAGVLLHSLSEECYWS PLSHPLPEFMGKEESSFATQAL RKPHLYEGDNLYCPKDNIEEAL LLLLISESMLANKLLLEMERV QSPGVESGVDRQLSPYSDTNVN AQNAQIVPVAAKSAQNEVPGY PEETEKSRVQSNLLTQFQDLRL LLAAPECLPPRMSPPS
22828	53196	B	22959	28	139	
22829	53197	A	22960	60	812	LASFPVPLHRCSAGSQPPGPVP EGLIRIYSMRFCPYSHRTRLVLK AKDIRHEVVNINLRNKPEWYY TKHPFG\HIPVLKTSKCQLIYES VIACEYLDDAY\GRKLFYDP YERVRQKMLLELFGKVPHLPK EFPGSVEDVGENAPNLKAALR\ QEFSNLEEILEYQNTTFFG\GTCI SMIDYLPL/WPWFER\AECMGY WNCVSHT\PALRLWISAMKWD PTVCALLMDKEHF\QGFLNPYF QNNPNAFDGLC
22830	53198	A	22961	2	251	ILLDFKPWDDDETMAQLEACV CSIQLEELV*GASKLVPMGYGI RKLQIQCVVEDDKVGTDLLEEI TKFEEHVQSVDIAAFNKI

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22831	53199	A	22962	353	1071	APLWPRAERKFYKQMNGPVAS ASRQSSAPG/NDHSELVLQIASL EVENQSLRGVVQELQQAVSNL EAWLNIRREKSSPGH/RSTVP QTQHVSPMRQVERPSRPPYYD PGQEAEDNEDDDIDLNDKEED KEARRLREERLRLYAKKAKNP SLVAKSSILLDIKPWDNKTDMT QLEACVRSIQLDGLVSGASKLA SVGYGIRKMQIQCVVEDDKVG TDLLEEEITKFEHVQSV DIAAL
22832	53200	A	22963	3	482	PWANEAPAKK/PATPAEG/DAR DDIDLFGSDNEEEDKQAGHS CGEER\LR\HYAGEEGPRK PAL/ VWPKSLPSLLDVK\PWDDDDGP WPSLEACVRSIQLDGLVWGGF PSLVPVG\YGIRK\LIQCVV\ED DKVGTDFPWRREITKFEEARA RSVDIASFSTRS
22833	53201	A	22964	1	2835	
22834	53202	B	22965	571	1337	
22835	53203	A	22966	1	489	
22836	53204	A	22967	1	618	
22837	53205	A	22968	3	5227	SWSRVRPRTRPEGLRQLKMRT GWATPRRPAGLLMLLFWFFDL AEPGRAVNDPLTIFHGNTGKC IKPGYGWIVADHCDKEDKLW KWVPQHRFLHLSQKCLGLDIT KSVNELRMFSCDSSAMLWWKC EHHSLYGAARYRLALKDGHGT AISNASDVWKKGGSEESLCDQP YHEIYTRDGNISYGRPCFPFLID GTWHHDCILDEDHNGPWCATT LNEYEDRKWGICLKPCNGCED NWEKNEQFGRCYQFNTQT
22838	53206	A	22969	3	453	GQSPILVIYHETKRPSGISERFSG STSGNTATLTITGTQAMDEADY YCQAGRDFGGGTKLTVLGQPK AAPSVTLFPPSSEELQANKATL VCLISDFYPGAVTVAWKAHSN PVKAGVETTTTPSKQSNNKYAA SSYLSLTPEQ*KSHRSYSC
22839	53207	A	22970	2	354	
22840	53208	A	22971	1	315	

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22841	53209	A	22972	1	712	MAWTLLFLTLLTQGTGSWAQS ALTQPASVSGSPGQSITISCIGTS SDIGAYYFVSWYQQYPGKAPK LLIFDVSGRPSGISSRFSGSKSGN TASLTISGLQAEDEADYYCASY ARSSTVVFGGGTSVTVLGQPKA APSVTL\FPPSSEELQANKATLV CLISDFYPGAVKVAWKADGSP VNAGVETTTPSKQSNKYAAS S\YYLSLTPEQWKSHRSYSCQV THEGSTVEKTVAPTECS
22842	53210	A	22973	1	1779	
22843	53211	A	22975	1	2001	
22844	53212	A	22976	292	1497	TGQLNGFHEAFIEEGTFLFTSES VGEHPADKICDQISDAVLDA HLQQDPDAKVA\CETVAKTGMI LL\AGEITSRAA\DLPRKVRE SCLNTLEYDDSSKGF*LQRLVN VLVALEQQSPDIAQGVHLDRNE EDIGAGDQGLMFGYATDETEE CMPLTIVLAHKLNAKLAELRRN GTLPWLRPDSKTQVTVQYMQD RGAVLPIRVHTIVISVQHDEEVC LDEM RDALKEKVIKAVVPAKY LDEDTIYHLQPSG/RTFVIGGPQ GDAGLTGRKII\VDTYGGWGA HGGGAFSGKDYTKVDRSAAY AARWVAKSLVKGGLCRRVLV QVSYAIGVSHPLSISIFHYGTSQ KSERELL*IVKKNFDLRPGVIVR DLDLKKPIYQRTAAYGHFGRDS FPWEVPPKKLIY

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22845	53213	A	22977	67	1579	FFVRSLSHTD'TNMNGQLNGFH EALIEEG'TFLFTSKADGEGHPD KICDQISEAVLDAHLHQDPDAK VACETVAKTGMILLAGEITSRA AVDYQKVVREAVKHIGYDDSS KGFDIYKTCNVLVALEQQSPDI AQQVHLDRNEEDIGAGDQGLM FGYATDETEECMPLTIVLAHKL NAKLAE LRNGTLPWLRPDSK TQVTVQYMQDRGAVLP'IRVHTI VISVQHDEEVCLDEMRDALKE KVIKAVVPAKYLDEDTIYHLQP SG\RFVIGGPQGDAGLTGRIIIVD PYDGWGAHEEGAFSGKDYTKV \SRSAAYGARWVARSLVKGGL CRRVLVQVP'GPPKKPDEDLYLE CEPDPVLALTQTL'SFQVLMPSG PLPRTSVVPREQQMLPLKDSDL LTQPWYSGNCDRYAVESALLH LQKDGA'YTVRPSSGPHGSQPFT LAVLLRGRVFNIP'IRRLDGGRH YALGREGRNREELFSSVAAMV QHFMWHPLPLVDRHSGSRELT
22846	53214	A	22978	3	325	
22847	53215	A	22979	15	1014	
22848	53216	A	22980	7	592	LLCSGRHSLQGVMGILSFLPVL ATESDWADCKSPQPWGHMMLL WTAVLSLAPVAGTPAAPPKAV LKLEPQWINVLQEDSVTLTCRG THSPESDSIQWFHNGNLIPTHTQ PSYRFKANNNDSGEYTCQTGQ TSLSDPVHLTVLSGQWRKAPG WTWEGQDG*NLLSGRGLQERG VACLLGSIAV'SCLSTYQWLFLP
22849	53217	A	22981	32	1150	EKAVTAVLWAPARLQGVMGIL SFLPVLATESDWADCKSPQPW GHM\LLWTAVLFLAPVAGTPA APPKAVLKL\EPQWINGGSRED SVTL\TC\RGTHSP\ESDSIQWFH NG\NL\IPTHTQPSLQVSRANN\N DSGEYTCQTGQTSLSDPVHLAT VLSEWLVLQTPHLEFQEGETIV LRCHS\WRDKPLVKVTF'FHNG KSKKFSRSDPNFSIPQANHSHSG DYH\CTG\NIG\YTLLFIPRLTIT VQAPSSSPMGIIIVAVVTGTAVA AIVAAVVALIYCRKKRISANPT NPDEADKVGAE'NTITYFTSQW HPGWLWEEPDDQNRILVSIVLA LGIWRRNSEREDLVF'PGLKFPL GEDTGRCCQFPKEKVFLPGVIL

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22850	53218	A	22982	1	471	MKSSFQGHNKEKREKKGPSLFS AAYGGGSCLLLSIMAALRPLVK PKIVKKRTKEFIWHQSDQHVKI KCNWRKPRG\QILMPNTGHGSN /KKTkHMLPSGFRKFLVPSVKE LEVLMCNKSPCAEIAHSVSSK\N KTIVERAAQ/LAVRVTPNPARNL RSEENE
22851	53219	A	22983	103	564	GIFRGIMAALRPLVKPKIVKKR TKKFIRHQSDRYVKIKRNWRKP RGIDNRVRRRFKGGQ\MLPNIGY G\SNKKTkHMLPKWLSGKFLG SHQRSREL/EKLLA*CCNKFFTC CPRFVSHCFSFQGTGKGLRGER SLPNWAFRVTPNPARNLRSEENE
22852	53220	A	22984	3	177	
22853	53221	A	22985	74	735	RFAGAGAIPEARARPPDVQAAE EEKEMDLPDSASRVF/CGDASS NMGEHRMNVNAILLAQKNML D\RFECT\NEMLLNFNNLSSARL ASRLSERFLHTRTLVEMKRDL D\SIFRRIRTLKGKLARQHPEAF SHIPEASFLEED\EDIPTQAPT TTIATSE\QSTG\SC\DTSPDTV\S PSLEPLASEDLSHVQALASPA\N NGPQPDQIDEEMTGRIALPARC
22854	53222	A	22986	3	275	MRTVAEKVDAVRIVHIHSVINL RRSDKRKDRVEISPEQLSAAST EAERLAELTGRPMRVVGWYHS HPHITVWPSHVGVGYHGVAMFI VFRN
22855	53223	A	22987	1	886	AKMAVQVVQAVQAVHLESDA FLVCLNHALSTEKEEVMGLCIG ELNDDTRSDSKFAYTGTEMRT VAEKVDAVRIVHIHSVILRRSD KRKDRVEISPEQLSAASTEAE LAELTGRPMRVVGWYHSHPHI TVWPSHVDVRTQAMYQMMDQ GFVGLIFSCFIEDKNTKTGRVLY TCFQSIQAQKSSEYERIEIPNIHV PHVTIGKVCLESVELPKILCP/ QEEQDAYRRIHSLTHLDSVTKI HNGSVFTKNLCSQMSAVSGPLL QWLEDRLEQNQQHLQEL\HQE KEELMQELSSLE

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22856	53224	A	22988	10	988	LKAMSWAKMAVQVVQAVQA VHLESDAFLVCLNHALSTEKEE VMGLCIGELNDDTSRSDSKFAY TGTEMRTVAEKVDVAVRIVHIHS VILRRSDKRKDQVEISPGQLSA ASTEAEKLAELTGHMPRVVVGW YHSHPHITVWPSHVDVVRTQAM YQMMMDQGFVGLIFSCFIEDKNT RAGRVLTYTCFQSIQAQKSSSEL HGPQDFWSSSQHISIEGQKEEER YERIEPIHIVPHVTIGKACLESA VELPKILCQEEQDAYWRIHSLT HLDSVTKIHNQSVFTKNLCSQM SAVSGPLLQWLEDRLEQNQQH LQELQQEKEELMQELSSLE
22857	53225	A	22989	1	1362	
22858	53226	A	22990	284	542	KLFQKKKNKSSCISDNFFLLAI MVNLLQIVRDHW\VH\VLVPM GFVIGCYLDRKSDERLTAFRNK SMLFKSFPHRELQPSEEVTKW
22859	53227	A	22991	272	1241	FPGGAACDICWVKEENGSLMS MKMGWKAKSCLPVTVHPRCL TPYSARLSSTFPL*NSITTGP*QS PACKRPF*LTT*GGSRRNSNR KAA*GPCSPPPSPPPSPATLPR GPAGLQPPGVPVLPPLRPRKHY APGGLPAPPASLLEDDDDTFCTS QAMQPTAPTKLSPPALLPEKDS FSSALDEIEELCPTSTSTEAATA ATDSVKGTSSEAGTQKLDGPQE SRADDSKLMDSLPGNFEITTST GFLTDLTLDLIFADIDTSMYDF DPCTSSSGTASKMAPVSADDLL KTLAPYSSQPVTSPQPFKMDLT ELDHIMEVLVGS
22860	53228	A	22992	1	3234	MELKCVCLKNRSPSAEEQPSLL PEPSAQESHGGHPRALYGRER LTGQPPSSPHNPAPWASCPAVI DPVPIYSSVAEAYDSGTEGIPTV PGLR\HVESGSLRATAQRLPPER RV/QQRTTAPPPRQPPRRPLRAS LSAAPPEPREPVVAAGPEPGSL QRPARTALPNRPEPQAASPGTL VEKYAAPVATQDLLDENPCTS RLGVVDLQAVLTLRKLENLRS GAQTPLEGGQSGRVGPHALRW NRGEEGERLLC
22861	53229	A	22993	307	1906	
22862	53230	A	22994	1	1752	
22863	53231	A	22995	588	704	

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22864	53232	A	22996	3219	3407	DQVVWTKRLQDAILVLV*EFRL HSPALRLCVMKQVGMSQGELE WGQFLKLSSRNKRSGERI
22865	53233	A	22997	1	588	
22866	53234	A	22998	1	917	
22867	53235	A	22999	1	1692	
22868	53236	A	23000	1	2266	MKRIRDYYERSHANNLDNLEE MDELLETHNLPGLNHEETENLN KPITTSLSPLAGVSSTKNTKNE LSIVLPFTGSILPVGFATRPRGL ASSNPILLHMVAFLFANGTEEL PVPLMTPTROKKVIPLIPLMVG LGVSASTIALGTGITGISTSVTTF RSLSNDFSASITDISQTL SVLQA LVDSSAAVVLQGQLRGLDLLT AEKGGLCIFLNEECFYLNQSG LVYDNIKKLKDRAQKLANQAR QNLD SMLHGTGMKSDSDQKKS ENGVTLAPEDTLPFLKCYCSGH CPDDAINNTCITNGHCFAIIEED DQGETTLASGCMKYEGSDFQC KDSPKAHVVRTIECCRTNLCNQ YLQPTLPPVVIGPFFDGSIRWL V LLISMAVCHIAMISSSCFCYKH YCKSISSRRRYNRDLEQDEAFIP VGESLKDLDQSQSSGSGSGLPL LVQRTIAKQIQMVRQVGKGRY GEVWMGKWRGEKVAVKVFFT TEEASWFRETEIYQTVLMRHEN ILGFIAADIKGTGSWTQLYLITD YHENGSLYDFLKCATLDTRALL KLAYSAAACGLCHLHTEIYGTQG KPAIAHRDLKSKNILKNGSCC IADLGLAVKFNSDTNEVDVPL NTRVGTKRYMAPEVLDES LNK NHFQPYIMADIYSFGLIHWEMA RRCITGGIVEEYQLPYYNMVPS DPSYEDMREVVCVKRLRPVSN
22869	53237	A	23001	68	636	GVTSNPKALLGALIAPAFASLPE GRGKRIQALNMFPRKNSWRLG LKYPSSKEKTQVPKTLISGLPE RKSTTRVGEKLQSAHKMPLSPG LLLLLFSGATATA/APLPLEGGP TG\RDSEHMQEAGIRKSSLLTF LA\WWFEWTS\QASAGPLIGKEA REVARREQEGAPPIQQSARRDRM PCRNFFWKTFSCK
22870	53238	A	23002	1	144	GIRLPSSADWQKTEAQKRREQL \LLDELVALVNKRDALVRDLDA QEKQ

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22871	53239	A	23003	2	667	RWNSSDPDADRTTLNHADHSS KIVQHRLLSRQEELKERARVLL EQARRDAALKAGNKHNTNTAT PFCNRQLSDQQDEERRRQLRER ARQLIAEARSGVKMSELPPYVG EMAAEKLKERSKASGEQNSKL VDLKLKLLLEVQPQVANSPPSSA AQKAVTESSEQDMKSGTEDLR TERLQKTTERFRNPVVFSDKST VRKTQLQSFSQYIENRPEMKRQ RSIQED
22872	53240	A	23004	1	1437	
22873	53241	A	23005	1	2009	MAKPYLYKKYGNQQGVAAIPD VPAAWEAEPSPISPVLRKPN ASQSLLVWCKEVTKNYRGVKI TNFTTSWRNGLSFCAILHHFRP DLIDYKSLNPQDIKENNKKAYD GFASIGISRLLEPSDMVLLAIPD KLTVMTYLYQIRAHFSGQELN VVQIEENSSKSTYKVGNYETDT NSSVDQEKFYAELSDLKREPEL QQPISGAVDFLSQDDSVFVND GVGESESEHQTPDDHLSPTAS PYCRRTKSDTEPQKSQSSGRT SGSDDPGICSNTDSTQAQVLLG KKRLLKAETLELSDLYVSDKK KDMSPPFICEETDEQKLQTLDIG SNLEKEKLENSRSLECRSDPESP IKKTSLSPTSKLGYSYSRDLDA KKKHAASLRQTESDPDADRTTL NHADHSSKIVQQDEERRRQLR ERARQLIAEARSGVKMSELPSY GEMAAEKLKERSKASGDENDN IEIDTNEEIPGFVVGGGDELTN LENDLDTPEQNSKLVDLKLKLL LEVQPQVANSPPSSAAQKAVTES SEQDMKSGTEDLRTERLQKTTE RFRNPVVFSDKSTVRKTQLQSF SQYIENRPEMKRQRSIQEDTKK GNEEKAAITETQRKPSEDEKGF KDTSQYVVGELAALENEQKQI DTRAAALVEKRLRYLMDTGQNL

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22874	53242	A	23006	145	3217	LDEYEARLTLANLDDFEEDNED DDENRVNQEEKAAKITELINKL NFLDEAEKDLATVNSNPFDDPD AAELNPFGDPDSEEPITETASPRV KTEDSFYNNSYNPFKEVQTPQ YLNPFDEPEAFVTIKDSPQSTK RKNIRPVDMSKYLADSSKTEE EELDESNPFYEPKSTPPNNLVN PVQELETERRVKRKAPAPPVLS PKTGVLNENTVSAGKDLSTSPK PSPISPVLGRKPNASQSLLVWC KEVTKNYR
22875	53243	A	23007	1	165	RPAAPRHERRPAADHGHHRPEP GRGTGQKACSELPSEACS/GIA IG*SL LCSACSVRSRKRQW
22876	53244	B	23008	26	625	
22877	53245	A	23009	325	526	
22878	53246	A	23010	1946	2224	LLQWRHGLLNPNINSPYNPILPV QKPKDPYRLVQHLCLIYQIVLPI HPMVPNPYTLSSIPFTTHYSVL DLKHAFFTIPLYPSSQPLFAFTW TDPDTHQAQQITLAVLPQCFIDS PHYFSQAQISSSVTYLGIILMK THIGLGAVEQGVVLVGEARAA QEPMEWVGSGMVGCRSRALP RGKAAKARREIERSAVTIVPVL DFNPAFHIIPTDTPDHHDCISLIH LTFTPFPHISFFPVPHLEHTWFID GSSTR
22879	53247	A	23011	1	1479	MEENFIRVFFTTTTMLLLIALIK QGELCESFDGKSLDGRDERVVI CFDAAAGLHRACSIRGEQQNL GTHYFTWQRLFAEVIKLGGLM KPKARNASSLWKEKTKNGFFS LETPEERQTSDLHKYQLAFRLF FIKYKNPAQFMAHLATTLRHFT ALDPESHNFQNLFSSSHLMHIL SAPRLRLYSRFVESPTVTIVPG PDFNPASNIIPTDTPDHDCLSLI HLAFTPFPIYISFFPVPHPDHTWF IDGSSTRPNCHTPAKAGYAIVSS TSIIEATALPPSTTSRQAELIALT QALTLAKGLRINIYTD/SHILHH HAVLWA/E/RGFLTMQGSSIINA SLIKTLLQAALLPKEAEVIHCKG HQAASDPITQGNAYADKVPSL AHAPTLTLAPVLQCPLREVAGT EDDNGKAVLEIPSNIRKSAHVP VQTWKGWDPTNLLGGWFSNL GGFKTLVGTVIFIIGFLLFLPCVI PRIIKAIKTLVETTISRQIIQTILL

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22880	53248	A	23012	854	1777	
22881	53249	A	23013	27	496	
22882	53250	A	23014	117	210	
22883	53251	A	23015	124	414	
22884	53252	A	23016	3	627	
22885	53253	A	23017	1	567	
22886	53254	A	23018	44	551	GGGRRSAPLQLGFMSRQAKDD FLRHYTVSDPRTHPKGYTEYKV TAQFISKKDPEDVKEVVVWKR YSD\FRK\IHGD\LAYTHRNLF\RR RLEEFPAFPRAQV\FGR\FEASV DSRER\RKGAEDLLRFTVHIPAL NNSPQLKEFFRGGEVTRP\LEVS RDLHILPPPLIPTPPPG
22887	53255	A	23019	25	488	
22888	53256	C	23020	9	119	
22889	53257	A	23021	52	241	
22890	53258	B	23022	4	402	
22891	53259	A	23023	249	984	GSTMYKMNICNKPSNKTAPEK SVWTAPAQPSGPSPELQGGQSR RNGWSWPPHPLQIVA WLLYLF FAVIGFGLVPLLPHHWVPAGY AVSLGKRRAGPWNPF\SVSAET ILPQCMGAIFAGHLVVHLTAVS IDPADANVRDKSYAGPLPIFNR SQHAHVIEDLHCNLCNVDVSA RSKHCSACNKCVCGFDDHCKW LNNCVGERNYRLF\HSVASALL GVLLL\LGGHICLRGVLCQPH ASAHQPTL
22892	53260	A	23024	2	224	
22893	53261	A	23025	111	1368	QQPSGSGALARGSGLPPRPGR PARSPVQKRKGWPKGKKRNP PRDLA\RVPTTGYMIFLNEQRS QLRATHPDLPFTEIMKMLAVQ WAQLSQDKGRKYAGKALGV TPPPSALTPVALIEEPKQLDIQSL PFQPILDR\KIKDKRQLVPSYLG GMHTVTEGLAGRQVLLQQVQ GGAWESAFLTCPWAMAAAAP GPTLTMLQPSISAVGFSQMAMG PHVQGRASKLSIYVNPRRQLST TTAMGDELNDLYCGTSRQLFSS LCNKKEPAAKAAPAAPLSSPGP PALGHAGHGRQLLLERSLTLFH LYELLYPRASPLWPPRVWM PHSLTCGTFWVPMIMMRFAH VASGLLRPPFNQVFAHLSPAQG RHPGENGIIVLTSRAAVRIRCSS CSRSLTG\NLKKILPRTQSTWSL WRKRRDK

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22894	53262	A	23026	2	405	
22895	53263	A	23027	1	391	
22896	53264	A	23028	3	463	
22897	53265	A	23029	74	466	FAFNMPEPAKSAPAPKKGSKK AVTKAQKKGKRRSRKESY SVYVYKVLKQVHPDTGISSKA MGIMNSFVNDIFERIAGEASRL AHYNKRSTITSREIQTAVRLLLP GELAKHAVSEGTKAVTKYHQ
22898	53266	A	23030	168	597	KEETDFLFWFCHYCFIMPELAK SAPAPKKGSKKAVTKAQKKGK KKRKRSRKESYSVYVYKVLKQ VHPDTGISSKAMGIMNSFVTTF FERIAGEASRLAHYNKRSTITS REIQTAVRLLPGELAKHAVSE GTNAVTKYTSSK
22899	53267	A	23031	18	321	FTATWLNQEVGIVGKYRTRYG VSLQKMVKKIEISQYAKYICSFL WQNSKMKRRAVGIWCCG/SCM KTVKVSSSRNHIVWTYNTTSAV TVKSTIRRLKQLKDQ
22900	53268	A	23032	12	445	FTCRSHVSEVEERCVEAPGLLG SRSITGFSLSKQAKRTKKVGIV GKYGNPLWGPSLRKIMVKKIE ISQHAQVHFALFCGKTKMKRR AVGIWHCGSCMKTVAAGGAWT YNTTSAVTVKSAIRRLKEFERP SRTLLYSLRTSLGL
22901	53269	A	23033	3	175	
22902	53270	C	23034	378	434	
22903	53271	A	23035	1	578	MVRCVRLVEAGSVVRYLSTSI RPVVDAGSRALCLQEWADSQQ VKEKQYSSRDVQRAAALNIYRI PPSSRKPALCPTPRDRLEYDEDR LEHIAVVRARELHTLEVTGLET VAQSKAHVASLEGLIPEDKVVL LAGSPLQNEATLGQCQVEALTT LEVVGRRLGASL/HTSASKHTM VRALTYCSSREETFTAI
22904	53272	C	23037	236	379	
22905	53273	A	23038	178	534	VVQKTEPRLCFAVSPFSCSLPL PSLFPHSPLLGRPKRQAKPAAD EGFWDCSVCTFRNSAEAFKCSI CDVRKGTSTRYLKICVTWVVV VI*QVFIEHTAICALGVQWYKD RPGPCSYGA

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22906	53274	A	23039	44	1012	VGGGGVQPSMTMGDKKSPTRP KRQAKPAADGEFWDCSVCTFR NSAEAFKCSICD\VRKGTSTRKP RINSQLVAQQVAQQYATPPPPK KEKKEKVEKAGQKRKPEKRPR KFSP/SVVTKKNTNKKTKPKSD\ ILKDPPS\EANSIQSANATTKTSE TNHTSRPRLEKRGTTGGIAQQFG QLTVG\NVTVIITDFK\EKTRSSS\ TSSSTVTS\SAGS\EQQNQRQLR GFRGATDKGSLPVPNPNGRPG QAVNDESFLKLAHGNCGLWN SGVWKFQNLPPAHACLHPWEN LSCGTSTSLVDCQDNFLLCHG HSWPPRDFRHPDDYSGHF
22907	53275	A	23040	1	626	MAGCRNPCKAESHRSKSLSEA ESLFREAESQHDRGSKNAGHR DESVEVWLSLLSSSQTRAEIER QSRGKQWLRHLLRDTEGPKET VRPELATRAAMDVAEVEFLAE KELVTIIPNFSLDKSYLIGVDNIP KADEIRTLVKDIWDTRIAKLRV SADSFVRQQEAHAKPDNLTLN EINPSGTFLTQALNHTYK/LRTN LQPSESTQSQDF
22908	53276	A	23041	1	951	MDAAEVEFLAEKELVTIIPNFSL DKIYLGITWELKYREIRWLSQG PHGKPHADPGSSILQNSSGPGS VRTNGKSKPWEFFVAEEFAHQ FHESVLQSTQKALQKHKGSA VLSAEQNHKVDTSVHYNIPELQ SSSRAPPQHNGQQEPPTARKG PPTQELDRDSEQEEDDEDGE DEEEVPKRKWQGIEAVFEAYQ EHIEERTLERNRSSTAADKAQL LAANRQGHGQPTDPASDNIPKA DEIRTLVKDMWDTRIAKLRVS ADSFVRQQEAHAKLDNLTLN EIHTSGTFLTQALNHMYKLRT NLQPLESTQSQDF
22909	53277	A	23042	1	626	MAGCRNPCKAESHRSKSLSEA ESLFREAESQHDRGSKNAGHR DESVEVWLSLLSSSQTRAEIER QSRGKQWLRHLLRDTEGPKET VRPELATRAAMDVAEVEFLAE KELVTIIPNFSLDKSYLIGVDNIP KADEIRTLVKDIWDTRIAKLRV SADSFVRQQEAHAKPDNLTLN EINPSGTFLTQALNHTYK/LRTN LQPSESTQSQDF

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22910	53278	A	23043	2	642	RPRLLRDAEGPEETVRLWPAA RAAMDAAEVEFLAEKELVTIIP NFSLDKIYLIGGDLGPFNPGLPV EVPLWLAINLKQRQKCRLLPPE WMDVEKLEKMRDHE\RKETTF TPMPKPFTTLELTKLLLNHASD NIPKQDEIRTLVKDMWDTRIAK LRVSADSFVRQQEAHAKL\DN LT\LMEIHTSG\TFLTQALNHMY KLRTNLQPLESTQSQDF
22911	53279	A	23044	3	1038	TSSMAAGCSEAPRPAAG\SDGS LVGQAGVLPCELEPTYAAACA LVNSRYSCLVAGPHQRHIALSP RYLNRKRTGIREQLDAELLRYS ESLLGVPIAYDNIKVVGELGDIY DDQGGHIHLNIEADFVIFCPEPGQ KLMGIVNKVSSSHIGCLVHGCF NASIPKPE\QLSAEQWQTMEIN MGDELEFEVFRLDSDAAGVFCI RGKLNITSLQFKRSEVSEEV TEN GTEEAAKKPKKKKKKKDPETY EVDSGTTKLADDADDTPMEE ALQNTNANGIWEEEPKKKKK KKKH\QEVSR TQDPCFSQGQLT S\SGYQSDHKKKKKKRKHSEEA EFTPPLKCSPKRKGKSNFL
22912	53280	B	23045	82	323	

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22913	53281	A	23046	3	1624	QLEIRAPTADEIHVTVGEARNLI PMDPNGLSDPYVKLKLIPDRN LTKQKTRTVKATLNPVWNETF VFNLKPGDVERRLSVEVWDWD RTSRNDFMGAMSGVSELLKA PVDGWYKLLNQEEGEYYNPV ADADNCSLLQKFEACNYPLEL YERVRMGPSSSPIPSPTDPK RCFFGASPGRLHISDFSFLMVLG KGSFGKVMLAERRGSDELYAI KILKKDVIVQDDVDCTLVEKR VLALGGRGPGGRPHFLTQLHST FQTPDRLYFVMEYVTGGDLMY HIQQLGKFKEPHAIFYAAEIAI GLFFLHNQGHYRDLKLDNVML DAEGHIKITDFGMCKENVFPGT TTRTFCGTPDYIAPEIIAYQPYG KSVDWWSFGVLLYEMLAGQPP FDGEDEEELFQAIMEQTVTPK SLSREAVAICKGFLTKHPGEAP GASGP*WGNLTIRAHGFFPLGF DWERLERLEIPASFSRPRPCGRS GENFDKFFTRAAPALTPDRLV LASIDQADFQFTYVNPDFVHP DARSPTSPVPVPM
22914	53282	A	23047	1	1522	MLRAPRQATRDHHFAHIDIVQV TCFRYLRRSALAPAMPSPVR VDRGSFPPVAGGNHTRRRGGTP QEGVTREALAFFDVVATTGAE MMWSNFFLQEENRRRGAAGRR RAHGQGRSGLTPEREGKVCLA LLLAAWAPRWCCPWAPSSG WTQHLQGQRQRRVRSOPTWG CGRRAPSGCGRRTCPWTGTPA APRSCPEASERNSEHPALICTLP QPHMLKRRARRAPGSMAPPLP RPPQAASVPVFPPDWEPLSRA RSKSPLHSQHRPAQETGRHSRP RTSTRKRQQKHSTEKATHTPER APKPQTRENNPKGRAQGSAPR DHNPASRHQKTSNDKRSTHDT HKTRKDSQTRRKKTRNNEKQQ PDR/IGPQIIAYQP/YGKSVDWW SFGVLLYE/MLAGQPP/FDGEDE EELFQAIMEQ/TVTPKSLSREA VAIC/KGCGRSGENFDK/FFTRA APALTPDRLV/LASIDQADFQG FTYVNP/DFVHPDARSPTSPVPV PASSPTRPQLLENKFGC

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22915	53283	A	23048	505	2345	SIWGMVMMNPTSSITLRRMM SLFPASLTTKYGGFYINSGTLQF RQASESEDDFIKEKKKSPKKR KLKEGGEKIKKKKDDTYDKE KKS KSKFSKAGFTALNASKEK KKKKYSGALSVKEMLLKFQKE KEAQKKREEEHKPVAVPSAEA QGLRELEGASDPLLSLFGSTSD NDLLQAATAMDSLTDLDLEHL LSESPGSPFRDMDDGSDSLGV GLDQEFRQPSSLPEGLPAPLEKR VKELAQAARAAEGESRQKFFT QDINGILLDIEAQTRELSSQVRS GVYAYLASFLPCSKDALLKRA RKLHLYEQGRLKEPLQKLKE AIGRAMPEQMAKYQDECQAHT QAKVAKMLEEEKDKEQRDRIC SDEEEDEEKGGRRIMGPRKKFQ WNDEIRELLCQVVKIKLESQDL ERNNKAQAWEDCVKGFLDAE VKPLWPRGWMQARTLFKESRR GHGHLTSILAKKKVMAPSKIKV KESSTKPKDKKVSVP SGQIGGPIA LPSDHQTGGLSIGASSRELPSQA SGGLANPPPVNLEDSDLDEDLIR NPASSVEAVSKELAALNSRAAG NSEFTLPAPSKAPAEKVGGLVC TEEKRNFAPSPSPAPPASSLQS
22916	53284	A	23049	1	379	AYRNFTSASDVWSYGIVMWEV MSYGERPYWDMSNQDPNTAL LDPASPEFSAVVSVGDWLQAIK MDRYKDNFTAAGYTTLEAVVH VNQEDLARIGITAITHQNKILSS VQAMRTQMQQMHGRMVPV
22917	53285	A	23050	1	123	
22918	53286	A	23051	3	221	
22919	53287	C	23052	80	379	
22920	53288	A	23053	71	924	AFSVNSSNSWEKA*SQKCLQV NYLSLSSASYLP/CMTCPSPAPL NLISNVNETSVNLEWSSPQNTG GRQDISYNVCKKCGAGDPSK CRPCGSGVHYTPQQNGLKTTK VSITDLLAHTNYTFEIVAVNGV SKYNPNPDQSVSVTVTTNQAAP SSIALVQAKEVTRYSV ALAWLE PDRPNGVILEYEVKYYEKDQNE RSYRIVRTAARNTDIKGLNPLTS YVFHVRARTAAGYGFSEPLE VTTNTGNKDHDPDSVTSEAFIIQ LNPITVKSKELSVIFGSADILLQ

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22921	53289	A	23054	1	1102	MRWLLKWERKYTLYSSGVLK HKNLLESLLGQFLGPPAQRFD AGGVRPKNDGRFTVIQLVGML RGIGSGMKYLSDMSYVHRDLA ARNILVNSNLVCKVSDFGMSR VLEDDPEAAAYTTRGGKIPRWT APEAIA YRKFTSA\SDVWSYGIV MWEIVMSYGERPYWDMSNQD VIKAIEEGYRLPPMDCPIALHQ LMLDCWQKERSDRPKFGQIVN MLDKLIRNPNSLKRGTGESSRP NTALLDPSSPEFSAVVSVGDWL QAIKMDRYKDNFTAAGYTTL AVVHVNQ/EVSTQRCNTKGDL ARIGITAITHQNKILS\SVQAMR TQMQQMHGRMVPRNSTVLNK LKTLEISLPHPCTLIEELHFFNFV
22922	53290	A	23055	148	3229	NAFRFHLLNPAGESHDRLQDLL SAVRSPTKRQEQRWHRRTMAG IFYFALFSCFLGICDAVTGSRVY PANEVTLLDSRSVQGELGWIAS PLEGGWEEVSIMDEKNTPIRTY QVCNVMEPSQNNWLRTDWITR EGAQRVYIEIKFTLRDCNSLPG VMGTCKETFNLYYESDNDKE RFIRENQFVKIDTIAADESFTQV DIGDRIMKLNTEIRDVGPLSKK GFYLAFAQDVGACIALVSVRVFY KKCPLTVRNLAQFP
22923	53291	A	23056	57	450	VGDCLTSRGMWSVQATLLAR/ ALCRAWGGT/CRGALTGTSISQ VPRLAPRGLHCSA/ASVSSEQS LVSPPEPRQR/PPGGERDKASF LQTVQKFADTSVVD SGHIDFIY LALRKMREYGVERDLAVYNQL LNIFP

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22924	53292	A	23057	89	1502	VGDCLTSRGMSWVQATLLARG LCRAWGGTCGAAL/SQEPPLR SLASLPRGLHCSAAAHSSSEQVL VSPPEPRQEGPPRLVPFEGPV LGQGAGLGERGQGRAFL/LDGC RNLRTTSVRKRGPH/VDLFYLA LRKMRE\YGVVERG/DLAVYNQL LNIFPKEVFRPRNIIQRIFVHYPR QQECGIAVLEQMENHGVMPNK ETEFLLIQIFGRKSYPMKLVL KLWFPRFMNVNPFVPRDLPQD PVELAMFGLRHMEPDLSARVTI YQVPLPKDSTGASKIPPKPHIVG HRACMSPHQESKSRSSKAAL\ ARHNPSIRPVFVEGPFSLWLRN K\CVYY\HILRA\DLLPEEEGK WKRTPEEWELYYPRQLDLEY VRSGWDNYEFDINEVEEGPVF AMCMAGAHDQIATMVKWIQ GPAGDQPQTLAQNPWSFRLRR VQPGELPDILLQGWSP/HPAR GPPRKKTTTCKRQQQGPVL
22925	53293	A	23058	1	2517	
22926	53294	A	23059	1	927	IIVVEFVSRLARAPSGPAVFSH LAMARLPLRGVRWGCLLTAVH PEPPTACREKQYLINSQCCSLCQ PGQKLVS DCTEFTETECPCGE SEFLDTWNRETHCHQHKYCDP NLGLRVQKGTSETDTICTCEE GWHCTSEACESCVLHRSCSPGF GVKQIATGVSDTICEPCPVGFFS NVSSAFEKCHPWTSCETKDLV VQQAGTNKTDVVCQPQDRLRA L\VVPIIFGILFAILL\LVFIKKV AKKPTNKAPHPK\QEPQEINFP DDLPG/SSNTAAPVAGRIFTWG GQPV\TQEDGQRESHFSCRERQ
22927	53295	B	23060	24	439	
22928	53296	A	23061	1	582	
22929	53297	C	23062	1	2607	
22930	53298	A	23063	248	430	ATNYTREQDSMWNCVR*GRTT ATTHSVTQRTDERQRRADTAL TLADYRNTSVTG VFAGLF
22931	53299	A	23064	776	1426	
22932	53300	A	23065	284	598	VFRLLRGQKSEPGKSRPKAL*N KPANTPVQSHISLYAAGINS KVR*SCRQSSARQSGSYL*TS SPQNRQQTGEITATVIAFGTRR TAPDITPHPASAR
22933	53301	A	23066	3139	3792	

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22934	53302	A	23067	2	830	GVPNMAAPQDVHVRICNQEIV KFDLEV KALIQDIRDCSGPLSAL TELNTKVKEKFQQLRHRIQPVL YQRAFIWTASTFFFKLTYSLTDF SSTQHDFNSPTTPVTFSDLAEQL AKEQDKESENQLLLQEVENHK KQMLSNQASWRKANLTCKIAI DNLEKAELLQGGDLLRQRKTT KESLAQTSSITITESLMGISRMM AQQVQQSEEAMQSLVTSSRTIL DANEEFKSMSGTIQLGRKLITK YNR\RELTDKLLIFLALRLFLAT VLYIVKKRLFPFL
22935	53303	A	23068	1231	1458	
22936	53304	B	23069	1	2133	
22937	53305	A	23070	722	957	VFRLLRGQKSEPGQKQAKSTLE QTSEYPSNRGIPRIQSECSIRTPL PFVRALRD*VRGCGCAPLSSVD SFFCCTEAL
22938	53306	A	23071	2	1137	VPNMAAPQDVHVRICNQEIVKF DLAEVKAPIQDIRDCSGPLSAL TELNPKVKEKFQQLRHRTGP/ VEQLAKEQDKESKQLLLQ\EV ENHKK\QMLQQFRPSWEGKLN SSPGKICNSDNLEKAELLQGGD LLRQRKTTKE\SLAQTSSITIES LMG/ISGRMMAQQVQQSEEAM QSLVTSSRTILDANEEFKSMSGT IQLGRKLITKYNRRELTDKLLIF LALALFLATVLYIVKKRLFPIF VRFPKVPVLAPFNSLFSGICPWF PEAPRLPKAEAHPLRFAPQLP CRLGWEHQCPPLFLQSSWLVK GEQSPWEEGPGIGMPPLGTYEP PPSHHCALWEAAAAWSTLKSE PPRTRMPLLSAPIVPLNARSGG GKREER
22939	53307	A	23072	64	665	RVRGGEAELAMAAEEEE\SGAP NVPNRERGGAGRPKTPFECNIC LETAREAVSVCGHLYCWPC HQLWLETR\PERQECPIVCKAGIS REKVVP\LYGRGSQEAPRIPELK TPPPPPRGQR\PAPESSGGFQPF GDTGGFHF\SGVGAFPGFFT TVFNAHEPFRRGTGVDLG\QG HPSLQLGKEFPLPGFSAIFFLFW

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22940	53308	A	23073	1	416	MQRRRRRLLLLPPRRQTDRAL PPPPSPGSMPPPLPPP/PPARGG GLRPGDGLYPK/PSPARRGSGA RTSWCTMCAPPSTSAPRASRRP RPSSCATRPPTSKPPPA\GHAPH PPPRDLGGGLDSGVQSDGV LQ HLQRP GH
22941	53309	A	23074	1	1713	
22942	53310	A	23075	1305	1538	LKVKRNCTSS*SPTIGHD*QSNL SLPPSDFAKPPFPFSLLRCSKFR KLKAAYRKRKKGHKSSLSLSV KINKTAAANK
22943	53311	A	23076	49	355	
22944	53312	B	23077	253	471	
22945	53313	A	23078	1267	1497	LKVKRNCTSS*SPTIGHD*QSNL SLPPSDFAKPPFPFSLLRCSKFR KLKAAYRKRKKGHKSSLSLSV KINKTAAANK
22946	53314	A	23079	3	1237	HEVAGAVPGAIMDEDYYGSAA EWGDEADGGQQEDDSGEGED DAEVQQECLHKFSTRDYIMEPS IFNTLKRYFQAGGSPENVIQLLS ENYTAVAQ\AVNLLAE\WLIQT GVEPVQVQDTVEYHLKSLLIKH FDPRIADSMFTEEGETPAWLE\Q MIAHTTW RDLFYKLAE\HPDC LMLNFTVKLISDAGYQGEITSV STACQQLEVFSRVLRTSLATILD GGEENLEKNLPEFAKMVCHGE HTYLFAQAMMSVLAQEEQGGG AVRRIDQEVQRFAQEKTVLTQE AIITVKGVSLSYLEGLMASTIS SNASKTIVAAMSNLVPPVELAN PENQFRVDYILSVMNVPDFDFP PEFYEHAKALWEDEGVRACYE RSNEYQLIDCAQYIFVLEMQVP CCEEAQSHPGQHGGVQVGRN
22947	53315	A	23080	1358	1589	LKVKRNCTSS*SPTIGHD*QSNL SLPPSDFAKPPFPFSLLRCSKFR KLKAAYRKRKKGHKSSLSLSV KINKTAAANK
22948	53316	A	23081	33	458	GITGSTDASGVTMKNPFVFS RRKNRKRHV NAPHVRRKIMS SPLSKELRQKYNVRSMPIRKDD EVQVVRGHHYKGGQIGKVHV YRKKYVIYIERVQREKANG/DK DRKKILERKAKSRQVGKEKGK YKEELIGKMQEYIEP
22949	53317	A	23082	1	576	
22950	53318	B	23083	37	276	

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22951	53319	A	23084	124	549	NNSLSSPVQADVYPRLIVPFCG HIKGGMRPGKKVGVMGIVDLN PKSFAINLTCGDESDPPADGAIE LKA VFTDRQLLRNSCISGERGE EQVSNPLLSIHSTTMPFRVEILC EH\HCFR\VFVDGHQLDFYHPH SNRYLAI
22952	53320	A	23085	1	215	QGFIKPPLKEENFTLPPPGKFGP PKGSLNSPPS/PSSP*SPGGGILL VYYLYRALFQKGCKEAAWLEY PLT
22953	53321	A	23086	533	983	PWGP GCNKRWPCLAKDPPTP QSSGVGQPFGGAEPAGAYIRTG PHLGPPPPPPDSSTNLHSPNPS DDGADTPLAQSDDEEEERDGG AEP\G\PAASSGPLAYRPDPAGY SPTS RPPGPSPEPLG/AEDPDSLL ASRAPRGNGWWDGTL
22954	53322	A	23087	1422	1670	NRYIDKTGWAWWLTVPVIRHFR RPRWVDCLRLGVREQPGQHSKI KSLQKNAK\ISQAWWHAPVDP ATWKADAGGSLEPGSLRLQ
22955	53323	A	23088	2	663	VLLDERSAALDGA KRDTLAL AAGALCREARAAQVFLKGGY EAFSASCPELCSKQ/INVSANCP NHFEGHYQYKSILCGMTTHKA DISSWFNEAIDFIDSIKNAGGRV FVHCQAGISRSATICLAYLMRT NRVKLDEAFEFVKQRRSIISPNF SFMGQLLQLESQVLAPHCSAEA GSPAMAVLDRGTSTTTVFNFVPV SIPDHSTNSALSYLQSLITTSSHC
22956	53324	A	23089	3	206	

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22957	53325	A	23090	982	2252	LFLEKRRPALGPENRQRAPQGR STLGALRPAMVMEVGTLDAG GLRAL\LGERRAAQLPACLDERS FF\AFNAGHIAGSVNVR\STIVR\ RRAKG\AIGALE\HIVPNAELR\ RLLAGAYHAVVLLDERSAG\LD GAKRDGTLALAAGRA/LCREA RAAQVFF/LSKGGYEA\FSASCP\ ELCSKQSTPMGLS\LSLSTSPD SAESGCSSCSTPL\YD\QGGPVE ILPFLYLGSAYHASRKD\MLDA LGHRLPWINVLSQIVPNHFEGH \YQYKSIPVEDNHKADISFWFN\ EADIFDSIKNAGGRV\FVHCQA GISRSAT\ICLAYLMRTNRVKLD EA\FEFVKQRRSIISP\NFQLHGA SLLQFEFPRMLGPALFRAEAGK PRQMAVL\DRGT\STTTVFNFVP SIPVHSTNSALSVPFRAPLTDLS QLVERPTGR
22958	53326	A	23091	13	287	
22959	53327	A	23092	1	492	
22960	53328	A	23093	1	636	
22961	53329	A	23094	1	506	PTRTWTRGRIPRLSAQPSRGAR GTMADPRVRQIKIKTG\VKRL \KEKVL\YEKEPKQ\QEEKIEKM RAEDGENYDIKKQAEIL\QES\R MMIPD\CQRR\LEAAYLDLQRI LENEKDL/EKEAEEYKEARLV DSVKLESCLKFSYGVVFALKPR GPILQSIIFDHVLCVQV
22962	53330	A	23095	1	786	
22963	53331	A	23096	183	1059	VLGAFIWQGLDPSPETAFDTHR ATEWGTNDQSLCLNSP*\ADAPS AKHEYQASVSGSVSSKPEIDLQ LYDEV RDQDVPVKRN FARIVV NVSDTNDHAPWFTASSYKGRV YESAAVGSVVLQVTALDKDKG KNAEVL\YSIESGSHPPYKTAAD VLLKAPPPGWRPTNTKPVHSTE AQPTQNQRTQQKH\NQASRSP RHSFATSTRAGAGICGCKTRRW MTRWMEESRGLQTL\PSRLEP GSSAAWLDPEEQ\AQLQFSSQE APFLGEGGENHIKGVPHGTKES QQQPLNHRSSL
22964	53332	A	23097	1	1224	
22965	53333	A	23098	1	660	

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22966	53334	A	23099	129	595	LFPRLLSCLTTPPHCSFSICFVIC SRTLILKGSSLMYVFCLPNTAIV MALSPRGWRSKFGMPWHKPT WIMTL*FPLEKTGALSLSLSDTS MFTVVVLTLGGPLPLSEA*T/GG NYDSHFDVDKGTGTIIIVAKPLD AEQKSNNLTVEATDGTITILT
22967	53335	A	23100	1	1782	MAARIEVIHELISIRLLLLMKTDL DAATAALLNVQPAKSGDNTSG APFPGKISQTLKDPHNGYHV FALAGSPKDADDTSIYMFYQK VGDNSIDSWKNAGRVFKDSK FDANDPILKDQQTQEWGSATFT SDGKIRLFYTDYSGKHGKQSL TTAQVNVSKSDDTLKINGVED HKTIFDGDGKTYQNVQQFIDEG NYTSGDNHTLRDPHYVEDKGH KYLVEANTGTENGYQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGIIELNND YTFEKSNEAADHFKHGGGATIK GRVADNGKPQLSSLTYIDIRVIE ESIYPPAILPLEIFITASGEEYSGG VIGKIHATDQDVYDTLTYSLDP QMDNLFSVSSTGGKLIHKKLD IGQYLLNVSVTDGKFTTVADIT VHIRQVTQEMLNHTIAIRFANL TPEEFVGDYWRNFQALRNIL GVRNDIQIVSLQSSEPHPLDV LLFVEKPGSAQISTKQLLHKINS SVTDIEEIIIGVRILNVFQKLCAG LDCPWKFCDEKVSVDSEVMST HSTARLSFVTPRHHRAARQQR GPPLHNPADT*TTARKYNCDKR
22968	53336	A	23101	184	13958	AMGRHLALLLLLLLLFQHFGDS DGSQRLEQTPLQFTHLEYNVTV QENSAAKTYVGHPVKMGVYIT HPAWEVRYKIVSGDSENLFKAE EYILGDFCFLRIRTKGGNTAILN REVKDHYTLIVKALEKNTNVE ARTKVRVQVLDTNDLRPLFSPT SYSVSLPENTAIRTSIARVSATD ADIGTNGEFYYSFKDRTDMFAI HPTSGVIVLTGRLDYLETCLYE MEILAADRGMKLYGSSGSSMA KLTVHIEQANECA
22969	53337	C	23102	56	331	

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22970	53338	A	23103	2249	2680	GEFLKTREFSIYFLEKYTTFPGE NLEHGFWDSSSTSPVLLHPGIPA SRJ/PVSSIFTKVPPKKSATKP/PV SIWGAPPLGPPGFWGCCPTGEQ RGVCHPSEPHPPVVD FRKKPPF LCVSLSLINIFKSNKFLLTTCNL VIFYTCSL
22971	53339	A	23104	739	1672	CQEAASEFGGPLHTPAMFLRRL GGWLPRPWGRRKPMRPDPYP EPRRDSSSENSGSDWDSAPET MEDVGHPKTKDSGALRVSRRA SEPSKEEPQVEQLGSKRMDSLK WDQPISSTQESGRLEAGGASPK LRWDHVDSSGGTRRPGVSPEGG L\GVPGPGAPLEKPGRRKLLG WLRGEPGAPSRYLGGPEECLQI STNLTLLHLELLASALLALCSR LRAALDTLGLRGPLGLWLHGL LSFLAALHGLHAVLSLLTAHPL HFACLFGLLQALVLAVSLREPN GDEAATDWESEGLERE GEEQR GDPGKGL

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22972	53340	A	23105	122	2437	RLELKLPLWTMRFTMELLGH LSIFKITGKQKQLTRTAPGPSQ LRSNQTTGNSLEPSGQPRSSQTT GNSLEPSGQPRSSQTTGNSLEPS GQPRSSQTTGNSLEPSGQPRSSQ TTGNSLEPSGQPRSSQTTGNSLE PSGQPRSSQTTGDSLEPSGQLRS NQTTGDSVQPNNREQPGTVRS APLQPNNREQPGTVRSAPLQPN NRGQRPTKQQTWNRQVSSA PTKQQTAR/PSGQPRSNQTTG NSLEPSSQLRSNQTTGDSVQPN NREQPGTVRSAPLQPNNRGQR TKQQTAR/PSGQPCSNQTTGN SLEPSSQLRSNQTTGDSVQPN REQPGTIRSAPLQPNNRGQRWD RQVSSAPTKQGTALGPSGSSAP TKQGTALPSSQLRSNQTTGN SLEPSGQPRSNQTTGNSREPSSQ LCSNQTTIGNSQDRQVSSAP/IQT TGNSQDRQVSPAPTKQQTAG NRQVSST/PIQTGNSVQPNNREQ PGTVSGAM/VWVATPVKGP VETSAHKVSAAGLPKKKT/QPG VTGGAPRLTLNTVLPKHSRTPS RHEAGSTQALYHNGQAQYALS FPHEAAPMAAFYVVTGIEVTTA LLEEAPCTVEITTALTLEPPC TVFWNKTERNRTLVDKGSN TKGFVQTATCCFRADCKASRPS PHPPSPHREWTSDLRHKQVSKF PGAHRLPGHPELPIQEAWDRGE
22973	53341	A	23106	605	813	LFVFINFRENPA LLRWAYAR/ TI NVYPNFRPTPKNSLMGALCGF GPLIFIYYIIKTERVSIQTRCLVF
22974	53342	A	23108	273	936	AYSNKVPSWNQKA/PSPTKPAG TLIFDFPAVKTVRNKFVFFINYP VSGYTEDLKKFLKPYTLEEQKN LTVCPDGA LFEQGPVYVACQ SPISLLQACRGMNDLDFGYSQR NPCILVKMNRHGLKSEGVPRID CVSKNEDIPNVA VYPHNGIIDL KYFPYYGEKLHVGYLQPLVAV QVSFAPNDTGKEVTVECKIDGS ANLKSQDDRDKFLGRVMFKIT
22975	53343	A	23109	104	478	ETEVGGLVEASMSHNCTTALQ PGQHSQKENLQNKPIPGREKY* VSIEFELIYFP/YCQVGYLQPL VAVQVSFAPNNTGKEVTVECKI VDGSANLKSQDDRDKFLGRV MFQNHSTVHMSRVSSTE

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22976	53344	A	23110	3	903	LLSPVRAHTMTKNEKKSLNQSL AE\WKLFIYNPTTGEFLGRTAAS WGLILLFYLVFYGFLAALFSFT MWVMLQTLNDEVPKYRDQIPS PGLMVFPKP\VTALEYTFSRSDP TSYAGYIEDLKKFLKPYTLEEQ KNLTV\CPDG\ALFEQKGPVYV ACQFPAISLLQACSGMNDPFDG YSQGNPCILVKLNRIIGLKPEG VPRIDLCFKRMKDIPNVAVYS\ HNGMIDLKYFPYYGKKTAMF/ VGIYQPIGLLVQVSFAP*QPLGK EVTVE/CAKIDGSSQPKKVQDD\ RDKVFGDEFMFQIHSTVH
22977	53345	A	23111	467	931	SRDSRRGTPLAGGRGRDFAQQ MGHRVQGRHGSRGRLPSGDAR VNAERAEPVGAGAGGPGGGSS VRGFCGRSWSEA/RGRRRAGG GVHNEP\RYRQFP\QLTQIPRCSQ SEF\FSGLMWFWIFWRFWHD K\KVLGHFPV\YPDPSQWTD\EE L\GIPPDD
22978	53346	A	23112	1	390	VTIPTSLAELQGLPHIRVFLDNN PWVCDCHMADMVTWLKETEV VQKDRLTCAYPEKMRNRVLL ELNSADLDCDILPPSLQTSYVF LGIG*ALIGAIFLHYRNNGPLTIS SEGLASLLCKDSRGVPLL

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22979	53347	A	23113	3	1653	PQRIQRGVPTRGEEVAPGRRQE EEREQERGAERPDPCCVLSGGK GRGNRPLREAPGGEGVSQVPA AAPLPRFHERKVFFFQTLPPAR ALRAQPPEPSEAPSPSSGETR AAMPGGCSRGAAGDGRRLRLA RLALVLLGWVSSSSPTSSASSFS SSAPFLASAVSAQPPLPDQCPAL /CACRSEAARTVKCVNRNLTE VPTDLPAYVRNFLTGNQLAVL PAGAFARRPPLAELALNLSGS RLDEVRAFAEHLPSLRQLDLS HNPLADLSPFAFSGSNASVSAPS PLVELILNHIVPPEDERQNRSE GMVVAALLAGRALQGLRRLEL ASNHFLYLPRDVLAQLPSLRHL DLSNNSLVSLTYVSFRNLTHLE SLHLEDNALKVLHNGTLAELQ GLPHIRVFLDNNPWVCDCHMA DMVTWLKETEVVQGKDRLTC AYPEKMRNRVLLELNSADLDC DPILPPSLQTSYVFLGIVLALIGA IFLLVLYLNRKGIKKWMHNIRD ACRDHMEGYHYRYEINADPRL TNLSSNSGCLEEILEDPRPTTLH
22980	53348	A	23114	288	877	ASRLSLPRTSMRSSSSTSPSSSS SSSSLCRFLNLSRVTDAAFNLL VWYYCTLTIRESLINNGSRWG RAGPEGGEHGMGCQGPSGKGR EQGAGG*WWVFCSRVKGGW VFHHYVSTFLSGVMLTWPDGL MYQKFRNQFLSFSMYQSFVQF LQYYYQSGCLYRLRALGERHT MDLTVGESGVALASGHSPFLPS

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22981	53349	A	23115	1	1273	MAPLHSILGNRVGLCQASVRA CPGATVSSQCRASLRSLAWRG SELPANRGRTWPGPGGLRLQA APRLAYLGRATLLVLTPYYDLP PNVRFTSMPASPHTYFLVLGAPI FLLLRSTWSYYHACRFEYATPN DRNTTYLAISGPTRRTYDVATF AYKDEYEKFKLYLTIILISFTC RFLNSRVTDAAFNLLVWYY CTLTIREILINNGSRPDGLMYQ KFRNQFLSFSMYQSFVQFLAQY YYQSGCL\YRLRALGVERHTMD LTVEGFQSWMWRGLTFLLPFL FLW/YNSGQLFNALTLFKPGPR DPQLQGVGRCLCCGFPFLALFL GNFFTTLRVVHHKFHSQRHGS KKDLRLGLSPCRPRRGFLVPVC FWEGDWEGAPSSVRVSGGLFY SPLGFMGRCGPGKEDPGPSCPQ
22982	53350	A	23116	238	398	
22983	53351	A	23117	1	386	
22984	53352	A	23118	13	580	
22985	53353	B	23119	39	1171	
22986	53354	A	23120	381	795	PPSSKAPSSKGPACIVCIYWALI LQSNEVTITEDKFNNLIKAAAV TVEPFWPSFFAKALASVNIGSLL CNAGVG/SMAPAACTAQAGGP ATSTTAASASFRNHNPRIAPKFR GVLAHEQYLSEATWVWAPNP NPKSLF
22987	53355	A	23121	1	960	
22988	53356	A	23122	2	3952	
22989	53357	A	23123	1058	1494	KSVRLVVN/YLRTQKAVVRVSP EVPLQNILPVICAKCEVSPEHV LLRDNIAGEEELSLSNELGIK ELYAWDNRRVPSAVPMQGPWP AEHFLQVNEQPAGSPSPCPS SSSSGLRGGMQTANGPACALTP TCAQTDPCPTSH
22990	53358	A	23124	195	398	TDSSALQPQHRGRPALRQRT PRRSP/SPGLSPRGASPASSGA PARGVAFGGDEPPIGAEAMYSK P
22991	53359	A	23125	2	155	
22992	53360	A	23126	1	339	

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22993	53361	A	23127	150	1017	LGRWRQDQVPHGLECRSQSEW SCTDSRQHSSSYSDSRRQEIGK MRYVSVRDFKGVLDIREYW MDLKRLPRKPRTGEAGSGSLSS PGADTPVEAAVTWRLGLGSVD VGSFRAWQRGKSAAVGHTVSP RWPRWQGGDSSALSMASLSTL TCSWGLRYSALSPTTSAQREEG SALYRHLSPPSLRFYPTVKWAT LAITRPRPPAPRSHSHHPQPRAL CPVWVLFQHPKTHGENLGDRW KEGSALVSSKGTPAKLSSGRIR NALQNTLGEVSVARIQTHRQIF VETTEARL
22994	53362	A	23128	1	584	APIECGGIPSLPVLCSRANDQE GVRLLPESEAMPKSKELVSSSSS GSDSDSEVDKLLKRKASLL/P ENPVKK\QKTGETSRALSSF*TE PASSRDDNMFQIGKMRYVSV RDFK GKSA*FDIREYWM DPEGE MKPERKGISLNPQQWEP SLKE QISGPLIDASKKTCKISEPILIKPC TVPVVLICLVTVAVCF
22995	53363	A	23129	186	687	LLWARGLGRAKSAVPTVSTML GLPWKGGLSWALLLLLGSQIL LIYAWHFHEQRDCDEHNVMAR YLPATVEFAVHTFNQQSKDYY AYRLGHIFNSWKEQVESKTVF SMELLGRTRVWEYLKTTIDNC HFQESTELNNTFTCFFTISTRPW MTQFSLLNKTCLEGFH
22996	53364	A	23130	232	402	LFKAWECCFLIFLQVVITRLKLD KDRKKILERKAKSRQVGKEKG KYKEET\EKMQE
22997	53365	A	23131	637	758	NVEEKNRKKILERKAKSCQ\NK KEKGEYKEETIGTMRECGL

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22998	53366	A	23132	1	1095	IVFLLYLETCLEVMDCKPNPEA LSDSSERLFSFGVIADVQFADLE DGFNFQGTTRRRYYRHSLHLQ GAIEDWNNESMPCCVLQLGDI IDGYNAQYNASKKSLELVLWQ FKRRKGPVHHTWGNHEFYNFS REYLTHSKLNTKFLEDQIVHHP ETMPSEDYYAYHFVPFPKFWFI LLDAYDLS/ALGAWDQSSPKYG GSVWKILEGSHNPNTGNWNSS SRDFSEA/RSLFQFNGRVSAQEQ LNWLNEVLTFSDTNQEKVVIVS HLPALYPGPPFDNVCLAWNYRD ALAVIWSHECVGVSLLGHTHD GGYSEDPFGVYHG\NLEGVIET APDSQRFQTVHVYPDKMMLKG RGRVPDRIYELQGKEEPSHC
22999	53367	C	23133	235	382	
23000	53368	B	23134	63	293	
23001	53369	A	23135	160	330	
23002	53370	B	23136	1	870	
23003	53371	A	23137	2	1013	
23004	53372	A	23138	1	1552	
23005	53373	B	23139	120	1034	
23006	53374	A	23140	1	584	RTRGRRSLAFLLLAERGAAAA VLWSGCRFRFRARLGCLPGGLR VLVQTGHRSLTSCIDPSMGLNE EQKEFQNAAFDFAAREMAPNM AEWDQKELFPVDVMRKAAQL GFGGVYIQTVDVGGSGHVRLDT SVIFEALA\TGCTSTTAY\IRHPQ CPQSQHSFVQEGGTHYKAGHL CCRQWGPRACLPPGRPCHRG
23007	53375	A	23141	2	412	
23008	53376	A	23142	47	487	
23009	53377	A	23143	77	459	GWKGIEHTLGRCLAEAGGVINY RMLLSWRRWLVAHPVF*SFSCE VGPVGQS*RTMLHCRHSDPV AKRLSCRRGDFASVVVLCPPQ RLRTLKHFLFFGGLPLSIDFVMT VDFCCHLHLTDFSSNFGF
23010	53378	A	23144	1	304	KVAGSPSPTAGQQVLDVNSCL DSSVLDSSFLTFSGLHAE/AEGS TGGPAALAYLGLKTLCTSQQAF AGQMKSDLFLDDSKSDLEEPW ELRKEGAPRSRDRE
23011	53379	A	23145	1	207	
23012	53380	A	23146	1	3009	
23013	53381	A	23147	3	298	
23014	53382	A	23148	1	636	
23015	53383	A	23149	1	795	

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23016	53384	A	23150	125	1527	SSPRQQTQLARVHP/DGRAQ/LA PSCLPGLGLCLPVCPPVCNCPA CPCHEHCGEAP*GVA\AKRGAL RVHPPHSCGGPRAMTVTLHGQ DVLMLPGDLVGLQHDAGPGAL LHCSPAGHPGPQAPYLSANAS SWLPHLPAQLKGTWACPACAL RLLAATEQLTVLLGLRPNLGLR LPGRYEVRAEVANGVSRHNLS CSFDVVSPPVAGLRVIYPAPRDG RLYVPTNGSALVLQVDSGANA TATARWPGGSVSARFENVCPA LVATFVPGCPWETNDTLFSVVA LPWLSEGEHVVDVVVENSASR ANLSLRVTAEEPICGLRATPSPE ARVLQGVLLVLLAGSSGYLVG FKFLESHGSDSGSANSFHCLISQ NEFKTLLPDLTRAPRYSPVVEA GSDMVFRWTINDKQSLTFQNV VFNVIIYQSAAVFKLSLSADSAP RPRWRLQSPRVGR LSPDPGFFG SPGPCQPR LQAFLI
23017	53385	A	23151	648	1387	ASTQSL LA WCPA WLSIPSTWPS SFSSGCPG/CKAQPVYEVSRSSY VYLEGRCLNCSSGSKRGYTF LTVLGRSGEEGCASIPSPNRP PLGGSCRLFPLGAVHALTTKVH FECMGWHD AEDAGAPLVYAL LLQRCRQGHCEEFCVYKGSLSG YGAVLPPGFRPQFEVGLAVVV QDQLGA AVVALNRS LAITLPEP NGSAMGLTVWLHGLTASVLP LLRQADPQLVIEYSLALVTVLN ETYTE SL
23018	53386	A	23152	2	654	DKHIWLSIWDRPPRSCFTRIQRA TCCVLLICLFLGANAVWYGAV GDSAYSTGHVSRLSPLSVDTV AVGLVSSVVVYPVYLAILFLFW MSRSKVAGSPSPTAGQQVLDI DSCLDSSVLDSSFLTFSGLHAEV INTLADHQHRTDFGGSPSVLII TVSLRSYKFAISLCTTYLWVINT LADHRHRTDFGGSPWLLIITV FLRSYKFAISLCTTYLC

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23019	53387	A	23153	2	4072	SRDPAGSYHLNLSSHFRWSALQ VSVGLYTSLCQYFSEEDMVWR TEGLLPLEETSPRQAVCLTRHL TAFGASLFVPPSHVRFVPEPTA DVNYIVMLTCAVCLVTYMMVM AAILHKLDQLDASRGRAIPFCG QRGRFKYEILVKTGWGRSGT TAHVIMLYGVDSRSGHRHLD GDRAFHRNSLDIFRIATPHSLG SVWKIRV\WHDNKGLSLALGFL QHVIVRDLQTA\QSTFFLVNDW LSVETEANGGLVEKE
23020	53388	A	23154	1	10922	MPPAAPARLALALGLWLGA LAGGPGRGCGPCEPPCLCGPAP GAACRVNCSGRGLRTLGPALRI PADATALTAMAKADGDVKKY GSKRGALALTHGHSLLRDVSH NLLRALDVGLLANLSALAELDI SNNKISTLEEGIFANLNLSEINL SGNPFECDCGLAWLPRWAEQ QVRVVQPEAATCAGPGSLAGQ PLLGIPLLDSCGATLVGPHGPL ASGQLAAFHIAAPLPVTATRWD FGDGSAEVDAAAGPAAS
23021	53389	A	23155	3887	14184	HVLCAWVTYMMMAAILHKLD QLDASRGCAIPFCGQRGRFKYE ILVKTGWGRSGTTAHVGIHA VWGGQPERPPAPGTATEPSTAT VWDIFQIRHPAQPGVACWKIRV FGTTTKGSALPRFPCSTSSSGTC RRHAAPSSWSMTGFRWRRRPT GAWWRRRCWPRVRPRSVFPLR HAALLRFRLLGAELQRGFFDK HIWLSIWDRPPRSYFTHIQRATC CVLLICLFLGANAVWYGAVGD SAYSTGRVSRNLNPLSVY
23022	53390	A	23156	1	442	GGASGMGGIT\ASTVNQ\SLSP LVLEVDPNIAVVRTQEKEQIK\ TLNNKFASFIDKVRFLEQQNKM LETKWSLLQQQKTARSNMDN MFESYINNLRRLQLETLGQEKLK LEAEFTTWGPPLMPMPATKQFN CFFFLVQNKTSASSANVK
23023	53391	A	23157	1	497	
23024	53392	C	23158	208	422	

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23025	53393	A	23159	81	1339	ELSSPRSSFSAPSRI SAWFGPPAS TPASTMSIRGTQKSYKGSTSGP RAFKQAAS*QRSGPGFRISSSSF SRVGSSNFRGGLGGYGGASG VMGGITAVTVNQ/SRALLSPLVL EVDPNIAVVRTQEKEQIKTLNN KFASFIDEVGFLEQQNKMLGT KWSLLDQQKTA\RSNMDNMF\ ESYINNLRQLETLAQEKLKLE AELGNMQGLVEDFKNNYED\EI NKSTETENEFVLIKKDVDEAYI NELYEEEEIRELQSQISDTSVVLSI DNSRSLDTSIIAEVKTEISEMN RNISWLQAETGLKGGRI SLEA GIADAEQRRELVIKDANAKLSE LEAALQQTKKLLEMENMSIHT KTTSGYAGGVSLAYGGLTGSG LSYGLSSSSRSGAGSSSFRTSST RAMVVKKIKTRDGKLLTSLR
23026	53394	A	23160	1	651	MTAFNSGKVDIVAINDPFIDLN YMVYMFYDSTHGKFHGTVK AENGLTVINGNPIT\FQDQDPS KIKWAP/LAKVIHDNFGIIEGFM TTVHTITATQTINGPSGKLSRDG CRALQDIIPVSTGAAPVGKVIP ELNGKLTGMAFHVPTANVSVA DLTCRLEKPA/KYDDIKKINTHS STFDAGAAIVLKDHSV K LISWY DNEFGYSNRVVHLMAHNASKE
23027	53395	B	23161	1	382	
23028	53396	A	23162	3	1151	ASAHASAVRQSAAIFFCVASRA HIAETPLGKVKVGVNGFGRIGR LVTRAAFNSGKVDIVAINDPFID LNYMVYMFQYDSTHGKFHGT\ VKAENGKLVINGNPIT\FQE\RD PSKIKWG\ DAGAEYRRGSPLGV FNQPWRKAGGSICKGGSQKGSS ISAPSAECPPCFVMGCEPMKKY DKQAFK\ISM\ASCTNQLL*HPL AKG*FHDNFGNSLEGLHDHKS MAITANPRKTVD\GPSRGKLWP LMGRGAL\QNIIPASTG\AAKAV GKVIPELNGKLTGMAFRVPTAN VSVVDLTCRLEKPAKYDDIKK VVKQASEGPLKGILGYTEHQV VSSDFNSDTHSSTFDAGA\GIAL\ NDHFVKLISWYDNEFGYSNRV VDLMAHMGFQGS
23029	53397	A	23163	160	236	
23030	53398	A	23164	931	1124	
23031	53399	A	23165	132	303	

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23032	53400	A	23166	20	171	
23033	53401	A	23167	1008	1262	HELQCSLLPVRHATAGHTNGQ NRLHWGHVAHSNYGAALKTN GVEVR*FTAAIARCDGNPYESF RKDVRADFQTRIDAIVRCLPK
23034	53402	A	23168	732	1162	RCHEKGRKGHQAPTGSTRPDG TLSACRSCQQGQGPASAGVP ARQMGSTGNLPHLV*PYFLGLS SKAQHTG*LHKKR
23035	53403	A	23169	2	1093	
23036	53404	A	23170	236	496	
23037	53405	B	23171	22	3084	
23038	53406	A	23172	305	522	LRDGRGSMSSSPNSASGSAICP ASSVMPETVSVSRVMPNVTKP A/MTAKQTRIRNQMVAITYES DAWNRSYQ
23039	53407	A	23173	177	386	
23040	53408	A	23174	3	200	GAVAPMHPLAHPVPGAAAQPP PA*QPATPCHQPA*GQPAPPDV PGEPSAGRSLHHAHICLAPNEQ
23041	53409	A	23175	171	535	
23042	53410	A	23176	190	505	VPTDRIRTRLTVCRRCEVHQ LEDRPFVEVYQVA/PRRD*SFETS VWNHMRKQ/PPLDVRQLAS*N VLHRQLDIMDSAVASMYSIHLS IKMGIGFSGVTTTVVKGTPK
23043	53411	A	23177	349	1272	
23044	53412	A	23178	518	1451	VSSSIIMFGPLSQFPRQQVGSSV KRPSNVVCPGLMFSFFSSAA*IP **PLI*QPGV
23045	53413	A	23179	2436	2894	TSPDVL RAGPRVPSVQGTSPSQ SCPGQRPHGPNSKAYGR/LSVM AQYYCNVIPVLE/VPPSAFTPPP KVDSAVV/RLVPHATMPHPVK DVRVLSRITTEAFNQRRKTIRNS LGNLFSVEVLTGMGIDPAMRA ENISVAQYQCMANYLAENAPL
23046	53414	A	23180	1846	2557	IPVSERQGS DWRFFSVYVVKNA GGLIYQLDSYAPTGLRLEKTFAS YPLDLLLKLHDERVLVAFGQR GRHPEWGHAVL\AINGMDVNG RYTAD\GKKVLEYLGN\NPANYP VSYLFAQPRLT/SNDKMLAL MFHSLFAIGSQA CLP\EQGK PQG IENAWKTDTFKLHCYQTLTGI KFVVLADPRQAGIDSLLRKIYEI YSDFALKNPFSLEMPIRCELFD QNLKLALEVAEKAGTFGPGS
23047	53415	C	23181	34	225	
23048	53416	B	23182	105	381	
23049	53417	A	23183	1	837	

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23050	53418	A	23184	3	744	HEASCRSERRRQMADFDTYDD RAYSSFGGGRGSRGS\AGGHGS RSQKELPTEPPYTA\YVGNLPF\N TVQGDIDAIFKDLSIRSVR\LVR DKVTGKFK\GFCYVEFDE\DSL K\EALTYD\GALLGDRSL\RVDF AKGRKTKIRVAFGFRKGGPDD R\GFRDDF\LGGRRGGS\RPGD\RR TGPPMGS\FRD\GPPLRG\SN\N DFREPTEEERAQRPRIQ\LKPRT VWRPLNQVANPNSAIFGGARPR EEVVQKEQE
23051	53419	C	23185	1	1038	
23052	53420	A	23186	1	1486	MGRNQSRKAENSKHESTYSP KDHSSSQAMEQSWTENGFEKL GFRKEALYYDLTASCQSQEL FQLYAGMSVVGTSMPVQAVCP YCGNRIITVTFVPGALTWLLC TTLFLFGYVLGCCFLAFCIRSLM DVKHSCPVCQRELFYYHRLRQ MELASSARTVVAPSRPCAGREG RGDANGKNSSPTAGSAMSSEPP PPPQPPTHQA\GVGLLDTPRSRE RSPSP\LRGNVVPSP\PTRRTRT FS\ATVR\ASQGPVYKGV\CKCF CRSKG/HIGFNYPAGWAGPDIF PGTSLDVGRGSYVPSGKGDEV TLLKCAPIPTPKNE\KLAGPWEV VHHSPWHPGT\KHET\WSG\HVI SFLGGLVESTPLSLCFVGDFAG RRQQTLEDDILPHETGLQRGNG PSQVSPGGKGYGGAGVGCVF PAISTAYGPLQQPLHHLKSIKSH LKRRGAHWLSSGNSNPIPGSGS RVGISSQLAQTHGLNPQNPNSS WSWRPQIPRSGPLAA
23053	53421	A	23187	2	617	
23054	53422	A	23188	1	993	
23055	53423	A	23189	779	1210	AAAGSEAGRRRGADPTRGPHV LPGSRQRRP/PIFPSLDLSGFFLF CSEFCPEIKSTNPGISIGDVAKE KKKLGEMWNSLNDSEKQPYFT KAAKLKEKYEKDVADYKSKG KFDGAKGPAKVARKKVEEED QEEEEEEEEEEEEDE

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23056	53424	A	23190	116	522	KAPYSTNSLSLPPFPILFMGSGY RKGPTFQEPKPLPGAAARGPGC DPTQPPRHSA PRDHGPPSPRCS PRPARPRASPAWLPPRAPTPPSP PAPAAAPRSCRGHARASSGRSG TTATPRRRRGGLWNQSPMDIK G
23057	53425	A	23191	1	152	
23058	53426	A	23192	1	676	MWSAGRGGAAWPVLLGLLLA LLVPGGGAAKTGAELVTCGSV LKLLNTHHRVRLHS\HDI\TYGS GSGQQ\SVTGVEASDDANSYW RIRGGSEGGCPRGSPVRCGQAV RLTHVLTGKNLHTHHFPSPLSN NQEVS\AFGE\EGEGDDPGTLW TVRCSGTA/HWEREA\AVRFQH VGTFV\FLSVTGEQYGSPIRGQH EVHGMPQCQ\QHNTWKAMEGI FIKPSVEPSAGHDEL
23059	53427	A	23193	1	1044	
23060	53428	A	23194	1	1083	MTATLAAAADIATMVGSSGL AAARLLSR\SFLLPHNGIRHCAY TA\SLRQHL\YVDKNTKIICQGFT GKQG/TPFHSQQALEYGTKLVG GTPPGKGGQTHLGLPVFNTVK EAKEQTGATG\SVIYVPPFAAA AINEAIE\AEIPLVVCYPRGIPQP GLGHSSSHKTCGPGKDKAYWG PNCPGV\INPGECKIGIMPG/HIF HKKGRIGIVSTSGTLTYEAGH/Q TTQKLGLGQSLCVGIGGDPFN GTD\FD\CLEILFERFLPQEGIILI G\EIGGNA\EENAAEILEPLYSGS KF/ARPVVS\FIAGLTAPPGRRN GVMPGAIISGREKVGA KRERSS ALQSAGVVV\MSMPCTAGEPRF YKEFEKREDRL

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23061	53429	A	23195	1173	2110	FFTELEETILKFIWNQKRACISK ARVNTNDKSGGITLPDFKLYNE AIVAKTTWYWKSRHIDQEK REEKKE*KKDPSVPETLKKKQR NFTELKIQCLSKKFAQKMLQTA RRKLIYEKVKHCHKEYRKMYR TEIRMARMATKAGNFYVPAEP KLAFVIRIRGINGVSPKVRKVLQ LFLLYQIFNGAFVKLNKASINM LRIVEPYIA/WRYPNLKS VNELI YKCGYGKINKK*IALTDNALTA RSLGKYGIICREDLIHEIYTVGK CFKEANNFLWPF/K/LSSPRGGM KKKTTHFVEGGDAGKREVQIN RLIRRMN
23062	53430	A	23196	3	571	GTMEGVEEKKKEVPAVPETLK KKRRNFAELKIKRLRKKFAQK MLRKARRKLIYEKAKHYHKEY RQMYRT\EIRMA\RMARK\AGN F\YVPARTQIWR\FVIR\IRGINGS EPQFRKVLQLLRPFVKIFNG/T PFVKLQQGFRFNMLRDCRSHIL AWG\YPN\LKS VNELIYK\RGYG QNQFDLHFPTEKRSHPGSQ
23063	53431	A	23197	2	340	PRVRPRVRDSKMASVGEVSGP QYPVKDKKLLAEVQTGGSFPSW VLMRGPSSPSGIFGAFQRGLLR GTYNKYI\NVKKGSDLGGFTMV L\ACY\VLFSYSFSYKHLKH\ER\ LRKYH
23064	53432	A	23198	2	48	PRVRLRC*MVDEYCGCEW GK* LNGGRVLWM
23065	53433	A	23199	123	693	QACIMREYKLVVLGSGGVGKS ALTVQFVQGIFVEKYDPTIEDS YRKQVEVDAQQCMLEILD TAG TEQFTAMRDLYMKNQGQFALV YSITAQSTFNDLQDLREQILRV KDTDDVPMILVGNKCDLEDER VVGKEQQGNLARQWNNCAFL ESSAKSKIYVNEIFYDLVRQINR KTP\VP G\KAPQKSPSCQLL
23066	53434	A	23200	461	1422	SPHGEPLLGQCRREM WGWSLH TESPLG\QWGSQILKLQNDLL
23067	53435	A	23201	232	331	TPL*KWLRGVMAVTVVTPQTG IIAIPDPHHEWGSTGYPR LPA

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23068	53436	A	23202	5	1223	GLDSGPESGLRAQPGLLAGKRK MSVLRRMMRVSNRSLLAFFIFF SLSSSCLYFIYVAPGIANITYLFM VQARGIMLRENVKTIGHMIRLY TNKNSTLNGTDYPEGNSSDYL VQTTTTYLPENFTYSPYLPCEKL PYMRGFLNVNVSEVSFDEIHQL FSKDLIDIEPGGHWRPKDCKPR WKVAVLIPFRNRHEHLPIFFLHL IPMLQKQRLEFAFYVVEQTGTQ PFNRAMLFNVGFKKEAMKDSV WDCVIFHDVDHLPENDRNYYG CGEMPRHF AAKLDKMYILPY KEFFGGVSGLTVEQFRKINGFP NAFWG\WGGEDDDLW\NRV\H YAGY\NV\TRPEGDLGKYKSIPH HHRGEVQFLGRYKLLRYSKER QYIDGLNNLIYRPKILVDRLYT NISVNLMPELAPIEDY
23069	53437	A	23203	78	495	CTFEKAPPFQLGRGRMVPAKK GGEKKTGRAINEVVTREYTINI HKRIHGVGFKKRAPWALKEIR KFAMKEMGTPDVRIDTRLNKA VWAKGIRNVLYRIHVRLSRKR NEDEDSPNKLYTLVTYVTVTTF KNLQTVNV DEN
23070	53438	A	23204	138	360	KNQKRQLSGGHCADQTSVLVA RLAPLF\PTTMSDKPDMAEIEKF DKSKLKKTTETQEK NPLPSKET EQEKQAGKS
23071	53439	A	23205	145	728	KRQPTSAMKDPSRSSTSPSIINE DVIINGHSHEDDNPF A\EYMW GKMEGRNFNR\QIGRRELWGR KD\FLNRCFPKE\MLGEEGKEG ALNWVLFPSFEILPHQTMGPNP RTSFNDPCLSSDGSFSWEDLVV KS\NLNPNAKEFVPGGEVRKYL SRRGPLLDVAQFP HCEGSIRR LNCKSSLGHCVTLYAIAQSFC
23072	53440	A	23206	530	707	
23073	53441	A	23207	1	515	MDFSKVPPHAAFAQQPPALT WGLAKGSGRGAGEGGERPDRR R/PAARTGTPAWRPAGRRLPP RSPPAPVPVRPALPHVVRPGKE TGKTRRRRHYSRPLRGAAA AAAAAAVAQTASPSWAEGGRS GAGGSAESP AFSSPALPCPEGLL CPSAVPVPSKQSVSEVLAIF
23074	53442	A	23208	3	713	
23075	53443	A	23209	1	704	

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23076	53444	A	23210	2	1631	GLPRRPTRPPTRSGVSPWPWPGPH SGVLFPLLLHCTGSLSQAVLTQ PSSLSASPGVASVKLTCTLRSDIN VGSPFIYWYQQKPGSPQFLLR YKSDSDNQQSGVPSRFSGSKD ASANAGILLISGLQSEVRRDDYY CQAWDSSTAHS DTGRGIVGRP PVRQCWPLLLLGLAMVAHGLL RPMVAPQSGDPDPGASVGSSRS SLRSLWGRLLLQPSQPRADPRC WPRGFWSEPSQLCYVFGTGTK VTVLGQPKANPTVTLPSPSEEL QANKATLVCLISDFYPGAVTV WKADGSPVKAGVETTKPSKQS NNKYAASSYLSLTPEQWKSHR SYSCQLQWGLGLGASQGGFLY EPVSQCVVFGGGTKLTVLGQP KAAPSVTLFPPSSEELQANKAT LVCLISDFYPGAVTVAWKADSS PVKAGVETTTPSKQSNNKYAA SSYLSLTPEQWKSHRSYSCQKP NHASHGTSRMPSVSAPVSGLKS CWSGTGDRSALGQMPGPCHGI PDPMQQASDSGQPKAAPLGSL CSKPSSEELSGQQGPHWCVS
23077	53445	A	23211	1	959	VFLLLYLVAMPDPAKSAPAPK KGSKKA VTKAQKKDGKKRKR SRKESYSVYVYKVLKQVHPDT GISSKAMGIMNSFVNDIFERIA GEASRLAHYNKRSTITSREIQT VRLLLPGELAKHAVFIENLLNY RKYL VKSSEKDRNYPCLPGLK SKVDICTPYCLLLPQPRHYPG KDTKEETEDFPNSPPPINREEDK RYTTVMGPCLRQAALLEGELLA CPVMEDQQANWVHEPITFNTF KEIRKSIRENGPASPFTRGLIEVI ADSSDLVASTQKLTQPKETPSA PYNDISDLTNQDSWFIGFPPIWN AGETDLSNNKTT
23078	53446	A	23212	3	463	
23079	53447	A	23213	74	464	
23080	53448	A	23214	41	490	
23081	53449	A	23215	2	369	PDPAANAPAAAKPAAAKALPV FLLLLSGGAGPAHPMRAPGC*G ELGYTEQLFQFLQATAQEEGIF EYTDPKLAISAVWTFRDLGVLQ QTPSPAGPRLHLSPTFASLDNQE KLEQFIRQFICS
23082	53450	A	23216	124	301	

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23083	53451	A	23217	3	2426	PGVLSTATFRESGLSPCSKLKHP GPRGRLQYSPPTAGQGRLENG AGHPQSTGVPATLSVAEYGTQ GGASGPARIPIGSRGCLLAGRA EASLWSSGFGMKLEAVTPFLG KYRPFVGRCCQCTPKSWESLF HRSITDLGFCNVILVKEENTRLF SWALLRVLKLFLNVQLHKGQ MKMVQKAAQQVGQVGTSLWL SPEQGLPLVLLSTHKTLLDGILL EFMLLSQGLGVLRVAVDSRAC SPALRALLRKLGLFLPPEASLS LDSSEGLLARAVVQAVIEQLLV SGQPLLIFLEPPGALGPRLSAL GQAWVGFVVQAVQVGIVPDAL LVPVAVTYDLVPDAPCDIDHAS APLGLWTGALAVLRSLWSRWG CSHRICSRVHLAQPFSLQEYIVS ARSCWGGRTLEQLLQPIVLGQ CTAVPDTEKEQEWTPITGPLLA LKEEDQLLVRRLSCHVLSASVG SSAVMSTAIMATLLLFKHQKG VFLSQLGFEFSWLTEEILVRGFD VGFSQQLRSLLQHSLSLLRAHV ALLRJRQGDLLVVPQPGPGLTH LAQLSAELLPVFLSEAVGACAV RGLLAGRVPPQGPWELQGILL SQNELYRQILLMHLLPQDLLL LKPCQSSYCYCQEVLDRLIQCG LLVAEETPGSRPACDTGRQRLS RKLLWKPSGDFTDSDSDDFGE ADGRYFRLSQSHCPDFFLFLC
23084	53452	A	23218	169	955	ASSQLPCSMAQCCATWAPLKM RWLCSTAWSTSSLPPSWSSL QASQPSCCHATS LAPCAGQCL ARAWPVLSFLCTCALGLLASIA MTFATQGKALLAACTFGSSELL ALAPYCPFDPTRIYSSSLCLWGI ALRCSAWAENVFAVRCAQLTH QLELRPWWGKKQPTHMMRE NPELVEGRDLSCTSSSEPLTL CRDDVLPRPDGQLRTLQATLL CDPGPGFLGAGLRGLKWTGG PSGAFQPSSPTPAHLHLKIETL F
23085	53453	A	23219	1	344	

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23086	53454	A	23220	214	1355	FCSSWLRLSLADSSLSWKMFVLVGLTGGIASGKSSVIQVFQQLGCAVIDVDVTARHVVPQGYPAHRRIVEVFGTEVLLENDINRKVLGDLIFNQPDRRSLNAITHPEIRKEMMKETFKYFLRGYRYVILDIPLLFETKKLLKYMKHTVVVYCDRDTQLARLMRRNSLNRKDAEARINAQLSLTDKARMARHVLDNSGEWSVTKRQVILLHTELESLLEYLPLRFGVLTGLAAIASLLYLLTHYLLPYAYTASAIPPSGAASRPGARCSAIRKRAPARPTSAVSPGAPRSPARGLRADRAAGTRNLNATLPPPGPPAPSPSPSSITLHV FHLQLPDITRGREGTDFQWEKFPGRVLVADSRRLRCLAPATWLVTWL
23087	53455	A	23221	2	1231	TPLFLRKGTADGSARTTVIHLGFTKKGKQRCVETQAAAVAGDVGRTAAGGRVVGKESGVSSDDRPLPVGQSQPEGGEQEATDTVSVHATTSQAWPGGADSKELSSKAEERETGKDQQTLPCLPLRDFPDSAPVMSSDSGHATESLHLASSDSKPPMPTNEGPGSTVGHAGPRTVKADLCTEPQLALRGLQVSLPRLHLVGVYIAEHQASGLECGHAGSCSPDGSPRAPGATLCLKPLSFRTKRCLPCWLPASAPVGPAPVHIPGAPVCIPGAPACISNAPVHIPGAPVGIPGAPVCIPGAAVCVPNTPMCIPAPMCIPNTPVCIPNTPVCIPNTPVCIPGAAVCILGA/PRAHPWCSSCVHPGAPECYLGCGLTQADRLEPAVLDAQLQELFALCGQALPS
23088	53456	A	23222	2	408	
23089	53457	A	23223	62	251	

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23090	53458	A	23224	2111	3003	TQKAICMCLGLCKKIHLLSLQ CLISQIKMIMGAGWQ/SSGFTDE KETSKIKADPEKLKKLQESLLE EDSEEEGDLCRICQIAGGSPSNP LLEPCGCVGSLQFVHQECLKK WLKVKITSGADLGAVKTCCEMC KQGLLVLDGDFNMIEFYQKHQ QSQIKTEATVVEHKDIYNTET QLVPEARSVLLVGAGQMLLTG ANRALNSDYSSMRPKVKAQNE LMNSGLYLVLHLLHLYEQRFAEL MRLNHNQVERERVVTRVLGG LSPNVSCGVVSGVGSFQWVRG LTDLKNEASDLHAQIPAE
23091	53459	A	23225	1	594	MIAAFNPGKVDTVTNNGPFIDL NYMVYMFHYDPHTGKFHDVP MFVMGMNHHKHNKLTVISNAS CTTNCLDPLAKVIHDFGIREG LMTTVHSIATQKTVDGFSRKL WHDSHGAFQNTIPASTGAAKI KKVVRQA/SQGPKGILGYTEH QVVPLEFKSNTRPSTFEAGAGI AVNDHFVKLISWYGNEFAYSN KVIKPM
23092	53460	A	23226	3	232	
23093	53461	A	23227	1078	2221	QQTLPAAALPCFPPTHPPEVL PTAMNTTSSAAPSLGVEFISLL AIILLSVALAVGLPGNSFVWWSI LKRMQKRSVTALMVNLALAD LAVLLTAPFFLHFLAQGTWSFG LAGCRLCHYVCGVSMYASVLL ITAMSLDRSLAVARPFVSQKLR TKAMARRVLGIWVLSFLLAT PVLAYRTVVPWKTNMSLCFPR YPSEGHRAFLIFEAVTGFLLPF LAVVASYSDIGRRLQARRFRS RRTGRLVVLILTFAAFWLPYH VVNLAEAGRALAGQAAGLGLV GKRLSLARNVLIALAFLSSSVNP VL\YACAGGGLLRSAGVGFFA KLLEG\TGSEASSTP\RGGS LGQ TV\KSGPAALEPGPSESLTASSP LKL\NELN
23094	53462	A	23228	6125	6319	ASVVPVTSALAMCSPKSGIGDG FAVLRVEDVAQK***KAALGV ASSPAWQQTREREHVQGN SPL
23095	53463	A	23229	1	1347	

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23096	53464	A	23230	1	1124	MRECISIHVGQAGVQIGNACWE LYCLEHGIQPDGQMPSDKTIGG GDDSFNTFFSETGAGKHVPRAV FVDLEPTVVDEVRTGTYRQLFH PEQLITGKEDAASNYARGHYTI GKEIVDLVLDRIKRL\FGGGTGS GFASLLMERLSVDYSKKSLEF AIYPAPQVSTAVVEPYNSILTT HTTLEHSDCAFMVDNEAIYDIC RRNLDIERPTYTNLNLRIQIVS SITASLRFDGALNVDLTFEQTN LVPYPRIHPLATYAPVISA EKA YHEQLSVAEITNACFEPANQMV KCDPRHGKYM ACCMLYRGDV V\PKDVNAAIATIKTKRTIQFVD WCPTGFKV*LGDM EAFQQAAD AQNNTGLEPHPLGRLSLFHGL
23097	53465	A	23231	1	2918	MDVYCAHESLRHTKSPEATGQ TSGQRPEALQAFWPAFGSSPVT GSSPVTEVTTKGRWSSSRQVL WDRIPLAKSRPAISNRQSRTNI PWWESCPILNLEREQPPRFAQP GTYASRWKALEEMEKQREQ VDRNIREAKEKLEAEME AARH EHQLMLMRQDPGLALVSCMQ QQQSMSRSPKKVFKHLYELNL TKLQSLGSRSLRWKDSPPFWGE EAGGKRPLVSLALHRSPSLLL LFVPKHPSKGRPDCTVQRS
23098	53466	A	23232	1	158	
23099	53467	A	23233	1	414	LGGLKGTWGETKPAMAAEEE DGGPEGPNRERGGAGATKTL YTGNHLFSPQWLETRPERQEC VCKAGISREKVVGESLLTFS HFLRLKTPQICRLPV*LFLPP*GF QPFGDTGGFHFSFGVGAFPF FNPSY
23100	53468	A	23234	1	663	
23101	53469	A	23235	2	667	SWAGGGFWFVGACVCVFGGTE GYVGRNKTGHGSSRRRRSGAP NVPNRERGGAGRPKTPFECNIC LETARELVLSVLANLYFWTISH QVLE\TRPE\RQECPVCKAGISR EKVVPLYGRGSQEAPRIPRLKT PPPPRGQR\PAPE\SRGGF\QPF DTGGFH\FSFGVGAFPFFFT V\FNAHEPFRRTGVDLG\QGH P\ASSWQD\SLLLFLA\FFFFWLL
23102	53470	A	23236	363	476	
23103	53471	B	23237	224	364	

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23104	53472	A	23238	1	1324	MRQRRAELLSKDKRVRTDGNN KCSPSAIGKRKERTNDWIEGD NNQESQGLNCSDTLNRDLGPN TRGFLYAGLSGLDPDPSLTPD MSSEVLEDNLDTLISLYSGKDSD SVKLLEEYADSESQASLQGRSR CWQHPPAPLSYPPAASGSQSL LQGKFPSAKPPLLGGYTCTAQR TQWALTKRSLRATRESVSRQQ GVYGLVGRKRTRHHRGVLGLL GIPSRPERPGTGSEAGPTRLPG AAVARRRPARPVRGRLGDPAP TAAQTSGPASLPPPPPSYGGP HQNGYPDPDPAPSASDLPPAA GDTRGSGGRRKKRRTGTARLN TPGRKA\PKQKAAAGRKGRAH QPAPRTPEPQRRRPIRPPNQTD LRHPHRRAGRGPPPGGAGGTA NPSTGANGGAATARRTAGART RGARGASERAGRHGSRPASWL TATPPPGT
23105	53473	A	23239	1	433	PTRPSSPEETDGPWDPEGHGG PLTDPPNAPVLALPPAIPGLSLS MADGSSDAAREPRPAPAPIRRR SSNYRAYATELQDLCRQLHAR VDKVDEERYDIEAKVTKNITEI ADLTQKIFDLRGKFKRPTLRRV RISADAMMQALL
23106	53474	A	23240	2	409	
23107	53475	A	23241	3	490	SSPEETVGPWDPEGHGGPLTD PPNAPVLALPPAIPGLSLIMADG SSDAVRAAG*GVAGTPRARAR EPRPAPAPIRRRSSNYRAYATEP HAKKKSISASRKLQLKTLQLQ IAKQELEREAEERRGEKGRALS TRCQPLELAGLGFAELQDLCRQ LHARVDK
23108	53476	A	23242	149	846	VSAWRNGSSDAAREPRPAPAPI RRRSSNYRAYATEPHAKKKS S\ASRKLQLKTLQLQIAKQELE REAEERRGREGARSLAPRCQP LELAGVLGFADLPGLCCRQFHA RV\DKVDEERYDIEAKVSKNITE IAN\LTQKIFDLRSKFKRPTLRR VRISADAMMQALLGARAKESL DLRAHLKQVKKEDPEKENREV GDWRKNIDALSGMEGRMKKW RELSLPAYCPCPEEGH
23109	53477	A	23243	1	487	
23110	53478	A	23244	80	511	

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23111	53479	A	23245	427	1417	KTMWKVEFGVRFISITRLLLEHQ PKQTMYIPLPK/PPLWPEEPKTE APKQTPRAPPKPKTSRPRIPQT QPEETDQSTQEPFTTKIPRTTEL AKTTQGLEMLSLIHNPKMHK DSTNEQIAASLQACYEQLLM YIRVTDVDSVGPNGKEAVTA PQAPTLFWLNHKAQLAKDWA GKDVNITPTFATSKKENKPPNN LQICNVSKIHQRAKVAGKPEIK DKHIQKEMPLDAIEASKINLVKI FNEFLKAWKCRLSFEYRIPENQ GHKGSFYLLVGSSRTSWLLTEK IGSSKRVLRMPMDILKTTQILL SFLWSINLTPRGKNNHLVAPAH
23112	53480	A	23246	3	1011	
23113	53481	A	23247	2	334	PIQSFFLVLLKKPPLRKGVYLSSK SLSRWFFKVQAN*RSQPQKAFS RLSCHC
23114	53482	A	23248	1	642	
23115	53483	A	23249	854	1150	KEDTNKWKNIPCSWLGRINIVK MAIMPKVNL*IQCHPHQATNDF SSQNWKKTTLKFIWEPKKEPAL PSQS*AKRAKLGGITLPDFQTIT YKATVTKTA
23116	53484	A	23250	1754	2393	PSNRREFGESWPETQAPGALRP LLPAPGTPRARERAGWPAPRM EVYIPSFYEESDLERGYTVFKI EVLNNGRKHVFVEKRYSEFHAL HKKLKKCIKTPEIPSKHVRNWV PKVLEQRRQGLETYLQAVILE NEELPKLFLDFLNVRLPSLPK AESCFSFDETESEESSKLSHQPV LLFLRDPYVLPAAADFNNVIE GVLHGIFYPHLQPR
23117	53485	A	23251	1	265	AGNRLRFQLELEFVQCLANPNY LN/WYPQCLHMLELLQYEHFR KELVNAQCAKFIDEQQILHWQ HYSRKRMLQQA\AKQQQQN NTSGK
23118	53486	A	23252	1	987	
23119	53487	A	23253	1	491	RGFRNFARVSGLLLCQAGGVL VSSFVMAAAVAMETDDAGNR LRFQLELEFVQCYANHNTLIFLP QR\GYFKDKAFVNYLKYLLYW KDPEYAKYLKYPQCLHMLGA APNMEHFRKEAGWNAQC\AKF IGWNRQVSTLGKHYSRKRMR LQQALAEQQQQNNTSGK

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23120	53488	A	23254	73	355	HEGQVHVLLASAHVDVAIVLG AGSMVEGEARPEQAAQHHQGI APLHLDAPGPSWTQSRSPRNRA NQNHCTSEAT*SHPEQLPQTLW ECHAPRSP
23121	53489	B	23255	1	441	
23122	53490	A	23256	528	698	HGQRFLHGPV/H/HHSYDN/PH HSLHHHRCLHHCHLHHHRHHL HHHPLHCYHHHPGQNG
23123	53491	A	23257	1	403	
23124	53492	A	23258	509	4547	LYLTTSRREEHLKSLVETQDL ASPVLRSVSICKVEEAFRQAH VIVVLDDSTNKEVFTLEDCLRS RVPLCRLYGYLEKNAHESVRV IVGGRTFVNLKTVLLMRYAPRI AHNIIAVALGVEGEAKAILARK LKTAPSYIKDVIIWGNISGNNYV DLRKTRVYRYESAIWGPHYSR PVLNLIFDSEWVKREFVAILKN LTTTGRQFGGILAAHSIATTLKY WYHGSPPEIVSLGILSEGQFGI PKGIVFSMPV
23125	53493	A	23259	56	290	
23126	53494	A	23260	468	993	VLLACFWPGSDFWPRSRRKTY GTAPQSCYSFYVALDCGGVSRL VIFVSWRNPQVAPSAHQNRPS RNPVSRPPNTQRRARRKHYAL ADGYTERRWTNAPCRAESSFP NCPSAAPIPDSYDK*PSRATLFT SHLTVEAFPVWSYLYPGETPRL HPRAHTRTPAAIRYPDRQTPN GLRGANTMHSQMDTLNGDGR THLAGQRARSPTARPQRQYRI HTTSDLPGLVRKYASGCCCLRIW YCCA WIERALSLQVGGGVFGD PLSEGQAECDHGST
23127	53495	A	23261	1	3114	
23128	53496	A	23262	3	401	TSSLSLSGKSGRYIVFLRRSVGI QSPSAVATVRLLLAGSDRRFAA GSAGCAVLSRAERS*EPGCCYR IRRSFRLRAGSIGNRDKPVAW PDTGSGDNTEVYFRAHQAGILP DTVLAGPAQRVAVSGGTPVDW
23129	53497	A	23263	2874	3062	

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23130	53498	A	23264	2766	3323	MPDLVEGREKSDKGAQPQPR QSRsARTNGSGVRILHSLWRIIG IPLLLGYSLVCSRVLACFWPG SDFWPRSRRTYGTAPQSCYSF YVALDCGGVSRLVIFVSWRNP QVAPSAHQNRPSRNPVSRPPN TQRVARRKHYALADGYTERR WTDAPCRAESSFPNCPL*RQY RIHIVDASVCGP
23131	53499	A	23265	968	1440	
23132	53500	A	23266	3	640	LSVVRSRIHMGVGVGVGCPVR YRNQDDHELQITHGNKILCGIV CDKGAQPQPRQSRsARTNGSG VRILHSLWRIIGIPLLLGYSLVCS RVLLACFWPGSDFWPRSRRT YGTVPQSCYSFYVALDCGGVS RLVIFVSWRNPQVAPSAHQNR PRRNPVSRPPNTQRVARRKHYA PADGYTERRWTIAPCRAESSFP PNCPSAAPIPDSYDK
23133	53501	A	23267	1	3140	MVYKMRYRSQHPYSIKEQMK SEVLSVKEKIGYGMGDAASHII FDNVMLYMMFFYTDFGIPAGF VGTMFLVARALDAISDPCMGL LADRTRSRWGKFRPWVLFAL PFGIVCVLAYSTPDLSMNGKMI YAAITYTLTLLYTIVNIPYCA LGGVITNDPTQRISLQSWRFVL ATAGGMLSTVLMMLPLVNLIGG DNKPLGFQGDLSMFSTPEEIA RPGPYENDVHVVGASSLAAGH KTLIPELVRSAEQHMGR
23134	53502	A	23268	750	1340	ILHAPAPPFSASASHEQPEWSD KGAQPQPRQSRsARTNGSGVR ILHSLWRIIGIPLLLGYSLVCSR VLLACFWPGSDFWPRSRRTYGT APQSCYSFYVALDCGGVSRLV IFVSWRNPQVAPSAHQNRPSR NPVSRPPNTQRVARRKHYALA DGYTERRWTNAPCRAESSFPN CPFAAPIPDSYDK*PFRIVS
23135	53503	A	23269	93	699	RASVQKKLSTDDKGAQPQPR TQSRsARTNGSGVRILHSLWRII GIPLLLGYSLVCSRVLACFWP GDFWPRSRRTYGTAPQSCYS FYVALDCGGVSRSYLYPGET PRVAPSAHQNRPSRKPGVTRPP NTQRVARRKHYALADGYTER\ SATNAPCRAESSFPPELPVPQVP NTGFIRQVTRDFCVNTPQAAA SGFW

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23136	53504	A	23270	1000	1530	QRYSDNPPNDKGAQPQRTQSR SARTNGSGVRILHSLWRIIGIPL LLGYSLVCSRVLACFWPGSDF WPRSRRKTYGTAPQSCYSFYV ALDCGGVSRLVIFVSWRNPQV AP TSAHQNRPSRNPVSRPPNTQ RVARRKHYALADGYTERRWT NAPCRA/VEFPFNCPWEAQYRI
23137	53505	A	23271	242	711	LKQKRDKEDRSSRVSAVLLIK/ HRRPLPLPIGLKACHCSCTAKC LGGCESPRKGGQLLIFEGHVKI DLEIFTKSLWLTRQLIVKKETEK AVKHASNICIMRTGLTFQSHKIE DGLFGLLVIAEAESYVCQST NPVDVYPLTAVPACCIISASDVP
23138	53506	A	23272	2	459	CVNSQIGRGHKITTYPFSPRKS G RKGMAQSQG WVKRYIKAFCK GFFVAVPVAVTFLDRVACVAR VEGASMQPSLNP GGSQSSDVVL LNHWKVRNFEVHRGDIVSLVS AKNPEQKIIKRVIALEGDIVRFP *DFCMPMPHISCGPQSAGRNV
23139	53507	A	23273	1	474	
23140	53508	A	23274	358	948	PLTPFSPRKSGRKGMAQSQGW VKRYIKAFCKGFFVAVPVAVT LDRVACVARVEGASMQPSLNP GGEPV/ASDVLLNHWKVTEF/ SEVHRGDIVFIGVAPKNPEQKIIK RVICSLKGDIFQNHRTQKP/DVK VPRGSHLGLEGDHSWDTVFDS NSFGPVSLLGHHATHILWPP ERWQKLESVLPPELPGTERRG MTA
23141	53509	A	23275	90	664	NKYRLQSPPRALWDRASDPP APPEDPETAPAMEEDQELERKI SGLKTSMVEG\ERKTTLELV\Q AAG\TDRPCVTFVLHEEDHTLG \NFLRY\MIMKNP/EKVEFCGYT YG/HPSFQRAKLNLPHSRFRGY PFAVEPISREALNELM\NVC\QP CAFTSFRASIKDYKESKSKQEM ESTFLVLLWQFYKGGTVL
23142	53510	C	23276	108	320	
23143	53511	B	23277	446	625	
23144	53512	A	23278	1	3042	
23145	53513	A	23279	1	3156	

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23146	53514	A	23280	518	2076	QRR*MCQNLMT\QNQRSGR SQNDF*RRRKNISERSAVYR*R QLYIRRPYAERPS\HVEDKGH KYLVEANTGTENG YQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGIIELNND YTLKKVMKPLITSNTVTDEIER ANVFKMNGKWYLFDSRGSK MTIDGINSNDIYMLGYVSNSLT GPYKPLNKTGLVLQMGDPND VTFTYSHFAVPQAKGNV VITS YMTNRGFFEDKKATFAPSFLM NIKGNKTSVVKNSILEQGQLTW LQVAKRAGLGGGQSGRTVLRE RVRIEIASTHIALAVECVSVRV WKVPRLP SRQKYAKHASQLVS NQKSEEEYMKTFNISQQDLEL VEVATEKITMLYEDNKHVGA AIRTKTGEIISAVHIEAYIGRVTV CAEAIAGSAVSNGQKDFDTIV AVRHPYSDEVDRSIRVIPTYGT DEWEQWWNAFNEENLFCSEE MPSSDDEATADSQHSTPPKKKR KYIYVLVIAITMVMRFWQYING
23147	53515	A	23281	299	457	
23148	53516	A	23282	584	1185	QRR*MCQNLMT\QNQRSGR SQNDF*RRRKNISERSAVYR*R QLYIRRPYAERPS\HVEDKGH KYLVEANTGTENG YQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGIIELNND YTSEKSNEAADHFKHVPQAKG NNV VITSYMTNRGFFEDKKATF APSFLMNIKGNKTSVVKNSILE QGQLTVN
23149	53517	A	23283	1	3618	
23150	53518	A	23284	191	819	VNVTSFGSRPICSTSPVLFSGL* GPVKEFDT*PSM*ISFELIPSIVIF EPRESVNKYHLPFILKTFARSISS VTVFEVISGFITFFNV*SLFNMI PRAPFANSASRFLALC*SFWLSL RKKFVPPP*YALLNKDSSPW/SS VFCSRVGFEYKVFMAFVFNVV RVSQRMVVAGCIIAFIDKLLNV LICFSVSVKNRFVIFHSVDFECV

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23151	53519	A	23285	2	2556	WRKIYQAN/GKTKKAGVAILVS DKTDFKPTKIKRDKEGHYIMVK GSIQQEELTILNIYAPNTGAPRFI KQVLSDLQRDLDSYTHMGDFN TPLSTLDRSMRQKVNKNTQEL NSALHQADLIDIYRTLHPKSTEC TFFSAPHHMYSKIDHIVGCKAL LSKFKRTEIITNCLSDHSAIKLEL RIKKLTQNCSTTWKLNLLND YWVHNEMKAEIKMFFETNENK DTTYQNE\WDTFKA\VCRGKFIA LNAHKRKQERSKIDTLTSQLKE LEKQEQTHSKASRRQEITKVRA ELKEIETQKTLQKINEFRSWFFE RINTIDRPLARLIKKKREKNQID AIKNDKGDITTDPTETQTIREY YKHLIYANKLENLEEMDKFLDT YTLPRLNQEEVESLNRPTGSGI VAIINSLPTKKSPGPDGFTAIFY QRYKEELVPFLLKLFQSIEEEGI LPNSFYEASIIIPKLGRDIAKKE NFRPISLMNIDAKILNKILAHRI QQHIKKLIHHDQVGFIPGMQG WFDIRKSINVIQHINRTKDKNH MIISIDAEKAFDKIQPFMLKTL NKLVLVLELVRAIRQEKEIKCIQL GKEEVKLSLFADDMIVYVENPI VSAQNLLKLISNFSKVSQYKIN VQKSQAFLYTNNRQTESQIMSE LPFTIASKSIKYLGIQLTRHVKD LFKDNYKPALNEIKEDTNKWK NIPCSWIGRINIVKELEKTTLNFI
23152	53520	A	23286	1	3087	
23153	53521	A	23287	1	741	MLGKKKPVCEVGGDSGVPKKE FQEGRQVLFKLWRGQANKVG DNSIDSWKNAGR VFKDSDFD ANDPILKDQTQEWGSATFTSD GKIRLFYTDYSGKHGKQSLTT AQVKVSKS/V*HTQNQRSGRSQ NDF*RRRKNI*RSVYR*RQL YIRRQPYAERPS\HVEDKGHKY LVFEANTGTENGYQGEESLFNK AYYGGGTNFFRKESQKLQOSA KKRDAELANGALGIIELNNDYT LKKVVVKPLITSN

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23154	53522	A	23288	849	1688	QQR*MCQNLMT\QNQPSGR SQNDF*RRRNISERSAVYR*R QLYIRRPYAERPISHVEDKGH KYLVEANTGTENGYQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGHIELNND YTLKKVMKPLITSNTVTDEIER ANVFKMNGKWYLFTDSRGSK MTIDGINSNDIYMLGYVSNSLT GPYKPLNKTGLVLQMGLDPND VTFTYSHFAVPQAKGNNVVITS YMTNRGFFEDKKATFAPSFLM NIKGNKTSVVKNSILEPGQLAV
23155	53523	A	23289	1	3171	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRIEITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKTEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAYKRKEERSKIDTL TSQLKELEKQEQRHSPSRRQE ITKMRAELKEIETQ
23156	53524	A	23290	1	3255	
23157	53525	A	23291	1	3924	
23158	53526	A	23292	1	3139	
23159	53527	A	23293	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRIKNLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDTTYQNLWDTFKAVCRGK FIALNAHKKRQERSKIDTLTSQL KELEKQEQTTHSKASRRQEITKIR AELKEIETQ
23160	53528	B	23294	1	3127	
23161	53529	A	23295	1	3325	
23162	53530	A	23296	1	3145	

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23163	53531	A	23297	191	819	VNVTSFGSRPICSTSPVLFSGL* GPVKEFDT*PSM*ISFELIPSIVIF EPRESVNKYHLPPILKTFARSISS VTVFEVISGFITFFNV*SLFNMI PRAPFANSASRFLALC*SFWLSL RKKFVPPP*YALLNKDSSPW/SS VFCSRVGFEYKVFMAFVFNVV RVSQRMVVAGCIIAFIDKLLNV LICFSVSVKNRFVIFHSVDFECV
23164	53532	A	23298	1	3352	
23165	53533	A	23299	1841	2679	QQR*MCQNLMT\QNQRSGR SQNDF*RRRNISERSAVYR*R QLYIRRPYAERPSIHVEDKGH KYLVEANTGTENGYQGEESLF NKAYYGGGTNFFRKESQKLQ SAKKRDAELANGALGIIELNND YTLKKVMKPLITSNTVTDEIER ANVFKMNGKWYLFTDSRGSK MTIDGINSNDIYMLGYVSNSLT GPYKPLNKTGLVLQMGLDPND VTFTYSHFAVPQAKGNNVVITS YMTNRGFFEDKKATFAPSFLM NIKGNKTSVVKNSILEQQQLTV
23166	53534	A	23300	1207	1533	YVHCKPSGWTVRTFDKPRKRFI AFFIAGILFRAIKNHFLPRETLQ CLPYILTGFRRGQSEYFSFSNM DLADTMFL*GAIRFSDLVNEQ IQHTFLIPGETICRLSEVV
23167	53535	A	23301	1	3253	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQGDLDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKWKRTEITNYLSDH SAIKLELRIKNTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQLELEKQEQTHSKASRRQE ITKIRAELEKETQKTLQKINESR SWFFERINKIDRPLARLIKKRE KNQIDTIKNDK
23168	53536	A	23302	1	3095	
23169	53537	A	23303	2	2678	

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23170	53538	A	23304	1	3335	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLS DHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNVYKRKQERSKIDTL TSQLKELEKQEOTHSKASRRQE ITKIRAELEIETQ
23171	53539	B	23305	1	2293	
23172	53540	A	23306	1	3810	
23173	53541	A	23307	255	1215	CVGQLAAAKR*RNSS*IQRLSR CVCSCGKPERR**HINLHVLSK GRRQLN/QTAGKTRAVSLKTAI SSTPTIRS*KIRKNGPVLQPLH LTEKSVYSTLTPTKAINTLYSK PTREQKTDTKAKNLYLTKRRT AAARTSSVKKARSFSRALKNA MLS*RTAPSVS*S*IMITH*KK** SR/CITSNTVTDEIERANVFKMN GK WYLFTDSRGSKMTIDGINSN DINMLGYVSNSLTGPYKPLNKT GLVLQMGLDPNDVTLTNSHFA VPQAKGNVITSYMTNRGFF EDKKATFAPSFLMNIKGNKTSV VKNSILEQQQLTVN
23174	53542	A	23308	1	4539	
23175	53543	A	23309	1	3229	
23176	53544	B	23310	1	3552	
23177	53545	A	23311	1	3139	
23178	53546	A	23312	1	3057	
23179	53547	A	23313	1	3215	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELREDIQTGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELREECRLSR CDQLEERVSADEMNEMKRE GKFREKRIKRNEQSLQEWDYV KRPNLRLIGVPESDVENGKLE NLTLDIIQENFPNLRQANVQIQ EIQRTPQRYSSRRATPRHIVRFT KVEMKEKMLRAAREKDRSTRQ KVNKDTQELNSA

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23180	53548	A	23314	1	1921	MVKGSIQQEELTILNTYAAHTG APRLIKQVLSDLQRDLDSTHIM GDFNTPLSTLDRSTRQKVNKDT QELKSALHQADLTDIYRTLHHK STEYTFFSAPHHIYSKIDHILGSK ALLSKCKRTEIITNYLSHSAIK LELWIKNLTQNHSTTWELNNLL LNDYWVHNEMKAEIKMFFETN ENKDDTTYHNLWDTFKA VCRGK FIPLNAHKRKQERSKIDTLTSQ KELEKQEQT\HASKARRQEITK IRAEKKEIETQKTL*KINESRSW FFERINKIDRLRLARLIKKKREKN QIDAIKNDKGDITTDPTIEIQTIR EYCKHLYANKLENLEEMDKFL DITYTLPRLNQEEVESLNRPTG AEIVAIINSLPTKKSPGPDGFTA KFYQRYKEELVPFLKLFQSIEK EGILPNSFYEASIIIPKPGRDTT KKENFRPISLMNIDAKILNKKL AKRIQQHIKKLIHHDQVGFIPG MQGWFNIRKSINVIQHINRAKD KNHMIISIDA EKA FDKIQPFML KTLNKLGIKYLGIHLTRDVKDL FKENYKPLLKEIKEDTNKWNI PCSWVGRINIVKMAILPKMCL* RRWTPCLLLTAAASLNRE*ERL VQPLLWRQMYCGPRHCRQVPQ HRRLNWSPSLRLS
23181	53549	B	23315	1	2907	
23182	53550	A	23316	584	1278	QQR*MCQNLMT\QNQRSGR SQNDF*RRRKNISERSAVYR*R QLYIRRPYAERPSHVDEKGH KYLVEANTGTENGYQGEESLF NKAYYGGGTNFRKESQKLQQ SAKKRDAELANGALGIIELNND YTLKKVMKPLITSNTVTDEIER ANVFKMNGKWYLF TDSRGSK MTIDVPQAKGNV VITSYMTN RGFFEDKKATFAPSFLMNIKGN KTSVVKNSILEQQQLTVN
23183	53551	A	23317	1	3345	

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23184	53552	A	23318	2	3366	WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYIMVK GSIQQEELTILNIYAPNTGAPTFI QQVLSDLQRDLDSHTLIIGDFN TPLSTSDRSTRQKVNKDTQELN SALHQADLIDIYRTLHPKSTEYT FFSAPHHTYSKIDHILGSKALLS KCKRTEIITNYLSDHSAIKLELM IKNLTQNHSTIWKLNNLLNDY WVHKEMKAEIKMFFETNENKD TTYQNLWDTFKAVCRGKFIAL NAHKRKQER
23185	53553	A	23319	1	2611	MGDFNTPLSTLDRSTRQKANK DTQELNSALHQVDLIDIYRTLH PKSTEYTTFFSAPHHTYSTTDHIL GSKALLSKCRTEIITNYLSDHS AIKLELRIKLTQNRSTTWKLN NLLNDYGVHNEMKAEIKMFF ETNENKDTTYQNLWDTFKAVC RGKFIALNAHKRKQERSKIDTL TSQLEKEKQEQTHSKASRRQE ITKIRAELEIETQKTLQK\INES RSWFFERINKIDRPLARLIKRR EKNQIDAIKNDKGDITTDPTIEQ TTIREYYKHLIYANKLENLEEM DKFLHTYTLPRLNQEEVESLNR PITGSEIVAIINSLPTKKSPGPDG FTAEDQRYKEELVPFLLKLFQ SIEKEGILPNSFYEASIILIRKPGR DTTKKENFRPISLMNTDAKILN KILAKRIQQHIKKLIHHDQVGFI PGMQGWFIHKSINVIQHINRA KDKNHMIISIDAEKAFDKIQQPF MLKTL SKLGIDGTYFKIIRAIYD KPTANIILNGQKLEAFPLKTGTR QGCPLSPLLFNIVLEVLRARIRQ EKEIKLISNFSKVSQYKINVQKS QAFLYTNNRQTESQIMSQLPFTI ASKRIKYLGIQLTRDVKDLFKE NYKPLLKEIKEDTNKWKNIPCS WVGRINIMKMAILPKVIYRFNA IPIKLPMFTFFTELEKTTFKFIWN QKRARITKSILSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN

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23186	53554	A	23320	1	3099	MGELITPLSTLDRSTRQKVNKD TQELNSALHQGDLIDIYRTLHP KSTEYTFFSAPHHTYSKIDHILG SKALLSKCKRTEIITNYLSDHSA IKLELRIKNLTQNRSTTWKLNN LLLNDYWIHNEMKAEIKMFFET NENKDTTYQNLWDAFKAVCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTHSKASRRQEI TKIRAELEKETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
23187	53555	A	23321	911	1539	VNVTSGSRPICSTSPVLFSGL* GPVKEFDT*PSM*ISFELIPSIVIF EPRESVNKYHLPFILKTFARSISS VTVFEVISGFITFFNV*SLFNMI PRAPFANSASRFLALC*SFWLSL RKKFVPPP*YALLNKDSSPW/SS VFCSRVGFEYKVFMAFVFNVV RVSQRMVVAGCIAFIDKLLNV LICFSVSVKNRFVIFHSVDFECV
23188	53556	A	23322	191	820	VNVTSGSRPICSTSPVLFSGL* GPVKEFDT*PSM*ISFELIPSIVIF EPRESVNKYHLPFILKTFARSISS VTVFEVISGFITFFNV*SLFNMI PRAPFANSASRFLALC*SFWLSL RKKFVPPP*YALLNKDSSPW/SS VFCSRVGFEYKVFMAFVFNVV RVSQRMVVAGCIAFIDKLLNV LICFSVSVKNRFVIFHSVDFECV
23189	53557	A	23323	965	5050	TWKGTTSTSRCKIMPKYRSTRQ KVNKDTQELNSALHQADLIDIY RTLHTKSTEY/TFFSAPHHTYSK IDHIVGSKALLSKCKRTEIITNY LSDHSAIKLELRIKNLNQSRSTT WKLNNLLLNDYWVHNEMKAE IKMFFETK\ENK\DTTYQNLWD AFKAVCRGKFIALNAHKRKQE RSKIDTLTSQLKELEKQEQTHS KASRRQEITKIRAELEKETQKT LQKINESRSWFFERINKIDRPLA RLIKKKREENQ
23190	53558	A	23324	1	2787	
23191	53559	A	23325	1	902	
23192	53560	A	23326	1	3640	

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23193	53561	A	23327	1	3686	MHIVVETALSASWQNKA KPPA RVLLQVVPNVWFLVAVVWEL YPSLDLMDRSIECSSSPATEQS WTENDYDKLREEGFRRSNYSE LQEDIQTKGKDVENFEKNLEEC ITRITNTQKCLKELMELKTKAR ELREECRSLRSRCDQLEERVSV MEDEMNMKQEGKFREKRIKR NEQSLQEIWDYVKRPNLRLIGV PESDGENGTCLKNTLQDIIQENF PNLARQAKVQIQEIQRMPQRY S LTRATPRHIIVRFTKVE
23194	53562	A	23328	1	3433	MGDFNTPLSTLDRSTRQKV NK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQNRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQKLELEKQEQT HSKASRRQE ITKIRAELEIETQKTLQKINESR SWFFERINKIDRPLARLIKKRE KNQIDA IKNDK
23195	53563	A	23329	1	3070	MEGEMNMKREGKFREKRIKR NEQSLQEIWDYVKRPNLRLIGV PESDGENGTCLKNTLQDIIQENF PNLARQANVQIQEIQRTPQRY S SRRATPRHIIVRFTKVEMKEKM LRAAREKDRSTRQKV NKDTQE LNSALHQADLIDIYRTLHLKSTE YTFFSAPHHTYSKIDHILGSKAL LSKCKRTEIITNYLSDHSAIKLE LRIKNLTQNRSTTWKLNNLLL N DYWVHNKMKAEIKMFFETNEN KDTTYQNLWDA

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23196	53564	A	23330	3	2372	TTNCLSDHSAIKLELRIKKLTEN HTTTWKLNNLLLNDYWVDNE MKAIEKMFFEINEKK\DTTSQNL WDTFKA VCRGKLIALNAHKRK QERSKIDTLTSQKKLEKQEQR NSKASRKQEITKIRAELEKEIETQ KKTLQKINESRSWFFEKINKIDG PLARLIKKKREKNQVDAIKNDK GDIITDPTMQTTIREYYKYLY ANKLENLEEMDKFLNTYTLQR LNQEGIESLNRPIITGSEIEAINS PTKKSPGPDGFTAKFYQRYKEE LVYPEPRSESECLSNIREFLRGC GASLRLESIREDRNGRSQKTVH TEGDMNMNIKKIVKQATVLT TTALLAGGATQAFKENNQKA YKETYGVSHITRHDMLQIPKQQ QNEKYQVPQFDQSTIKNIESAK GLDVWDSWPLQADGTVAEY NGYHVVFALAGSPKADDDTSI YMFYQKVGDNISDSWKNAGR VFKDSDKFDANDPILKDQTQE WSGSATFTSDGKIRLFYTDYSG KHYGKQSLTTAQVNVSKSDDT L KINGVEDHKTIFDGDGKTYQN VQQFIDEGNYTSGDNHTLRDPH YVEDKGHKYLVEANTGTENG YQGEESLFNKAYYGGGTNFFR KESQKLQQSAKKRDAELANGA LGIIELNNDYTLKKVMKPLITSN TVTDEIERANVFKMNGKWYLF TDSRGSKMTIDGINSNDIYMLG
23197	53565	A	23331	2	2987	APRFIKQVLSDLQRDLDSHTIIM GDFNTPLSTLDRSTRQKVHKDT QELNSALHQADLIDIYRTLHPK STEYTCFSAPHHTYSKIDHIVGS KALLSKCKRSEIITNCLSDHSAI KLELRIKKLTQNRSTTWKLNNL LLNDYWVHNEMKAEIRMFET NENKDTTYQNLWDTFKA VCRG KFIALNAHKRKQERSKIDTLTS QLKELEKQEQTHSKASRRQEIT KIRAELEKEIETQKTL\QKINESR SWFF\ERINK
23198	53566	A	23332	339	701	PDKEGNEIWVDMYTVKPSGWT VRTFDKPRKRFAFFIAGILFRAI KNHFLPRETLQCLPYILTGFRRG QSEYFSIFSNDLADTVMF*G AIRFSDLVNEQIQHTFLIPGETIC RLSEVV
23199	53567	A	23333	190	502	

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23200	53568	A	23334	4472	8032	KKSGNNRLMRVHGKKRFLWQ KQGVCEVEIQAQRESARDGTD REDAESPHAETVPRGTRTEILT LWASRDRPASACGVTPKGST THPGGMDRVCGVDTAVLHWM KQVQGISNLEVETGPRRRDMD EAGSRHSQQTNIGTENQTPHVL THKWQLNRNSACDKLHKPHSV PGGVAAGDVGGKTISNPGVCAI EYQVDGSPHIWEDVNKGVIIEE DRAPLMERSSSPAMEQSWMEN DFDELREEGFRRSNYSELRED
23201	53569	A	23335	1	2374	MVSISDLVICPPRHPKVGLGQGP PGLDSISDPSAGAGFLDWGEIG MPGPGRAGHQALCKCDCQCLE KTTTKAPGKMPKSTRSGPVRV RLADGPNRCAGRLECGMPDAG EQCVMTTGTSGRHCGLLGTGL WKGYTDLTIIPPGPTPPQERTC QGDYHSGGTWTHSPLETRRP GSSSPAIRRLPAQMLLLPARPPH PRSSSPEAMDPPPPKAPFPKAE GPSSTPSSAAGPRPRLGRHLLI DAN/GVYPYTYTVQLEEEPRGP PQREAPPGEPRKGYSCPECA RVFASPLRLQSHRVSHSDLKPF TCGACGKAFKRSSHLSRHRATH RARAGPPHTCPLCPRRFQDAAE LAQHSWGTPRGPLLAAACNCE VARGRLESPGERLLHGYGGRE EEGGWGAAAGGLDRVEGFISS KAHHYLLIDTQGVPTVLVTRS HRGSQGPVGLQARKVLQLPRV LKGLRVHVHLQRHSITHSEVPQ DFAGSLDSFQTPGESLRLVFRA LDTTQSSRISKAEPCLKEEPLSL GDLPYMHTTLCFCRKRRASPGP GTLQRGALAWPDWASPRALPV PSLSSTTRSPAAPLFAVPLSGRT TQAMAFDGIIFQGGQSQRSAGLT TTSRFLACQRPLRLCAWWASRS PRCTLRRPVGLRPGVHPRPRLV YRDLKPENVMASGQPRDRPQP WFAWPPRPTRFCGGCWTLTPK

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23202	53570	A	23336	853	1602	PGAAWSRPDLRGCTEPQPALR MLVLASPCPQPLAFSSVETMEG PPRRTCRSPPEGPSSSIGSPQASS PPRPNHYLLIDTQGV\YTVAW LDEESQREPGASGAPGQKKCYS CPVCSRVEYMSYLQRH\RFSH SEVKPFEICDICK\AFKRSQHL/ SARHHSIHLGGWVGGPACRFC PRRF\RDAGELAQHSRVHSGER PVS\STLPSPLYGAETHAETHA VEASHEAGLPGAPGTHRTLQ\G ALDSCPDTW
23203	53571	A	23337	1	1144	MGHHLMDKLVALGGLYYAIQ RHYATKCSVLKNDQILVIGLFM IQNVYRKHFANPLSALFLQQGI ELFAAIAEIHITVAERNHAITQI RLEAQTIFDSLKEWHNAIRKSL DYEALQAFEFVRGATDRGFPAL SSEALVRVLVDANDNSPFVLY PLQNGSAPCTELVPRAAEPGYL VTKVVAVDGDSGQNAWLSYQ LLKATEPGLFGVWAHNGEVRT ARLLSERDVAKHRLVVLVKDN GEPPRSATATLQVLLVDGFSQP YLPLPRAAPAQAQADSLTVYL VVALASVSSLFLFSVLLFVAVR\I LCRRSRAAPVGRCSVPECPFP HLVDVSGTGTLSQSYQYEVCLT GGSGANEFKFLKPVPINLLSRDS
23204	53572	A	23338	1	1260	MVCYIQENLPFLKPSVENFYIL ITEGALDREIRAENITITVTDL GTPRLKTEHNITVLVSDVNDNA PAFTQTSYTLFVRENNSPALHIG SVSATDRDSGTNAQVTYSLLPP QDPHLPLASLV SINADNGHLFA LRSLDYEALQAFEFVRGATDRG SPALSREALVRVLVDANDNL\I PFVLYPLQNGSAPCTELVPRAA EPGYLVTKVVAVDGDSGQNA WLSYQLLKATEPGLFGVWAHN GEVRTARLLSERDAAKHRLVV LVKDNGEPPRSATATLHVLLVD GFSQPYLPLPEAAPAQAQAEAD LLTVYLVVALASVSSLFLLSVL LFVAVRLCRRSRAASVGRCSM PEGPFPGRLVDVSGTGTLFQSY QYEVCLTGGSETGEFKFLKPITP HLPPhRGGKEIEENSTLPNSFGF

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23205	53573	A	23339	123	5794	SSSDSGSLKGACTEVKMEPAGE RFPEQRQVLILLLEVTLAGW EPRRYSVMEETERGSFVANLAN DLGLGVGELAERGARVVSEDN EQGLQLDLQTGQLILNEKLDRE KLCGPTEPCIMHFQVLLKKPLE VFRAELLVTDINDHSPEFFERE MTLKIPETSSLGTVFPLKKARD LDVGSNNVQNYNISPNSHFHVS TRTRGDGRKYPELVLDTELDRE EQAELRLTLTAVDGGSPPRSGT VQILILVLDANDNA
23206	53574	C	23340	20	313	
23207	53575	A	23341	119	247	RSRCISASPRRPASFRKSIPEEED ESLNI*KGQVSILFFYIK
23208	53576	B	23342	55	288	
23209	53577	A	23343	1	3576	MAFLFEFSDLVSLLSIGTMLAY SLVAFSVLVRLYQPDENFSKNE KPKEEVVEMNSVPKAESPACVP EASSTPASLWSPVSTIPTRWGR IVYGCAFLLVLLSMLCLVLAH WPKRLFSGELIYIAAAVLLLVI VGFTFTVWRQPSNTPLYFKPP HISTSQNLSPHPMEYLLRTGI EPDVRGVLTVNALPAGPPVACS PLVSISAHVYLLMMQMTTETWA QCGVWMLIALECPNLKLLKPP WLHMLAMTMYA

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23210	53578	A	23344	3	1762	SVRPGPGHVRVRRFFSLSPPLR PWPLCPAARRMTMGSILSRRIAG VEDIDIQANSAYRYPPKSGNYF ASHFFMGGEKFDTPHEGHLFG ENMDLNFLGSRPSQFPYVTPAP HEPVKTLRSLVNIRKDSLRLVR YKDDADSPTEGDGDKPRVLYSL EFTFDADARVAITYCQASEEFL NGRAVYSPKSPSLQSETVHYKR GVSQQVSLPSFKIDFSEWKDDE LNFDLDRGVFPVVIQAVVDEG/ DSVVEVTGHAHVLLAGFEKHM DGSFSVKPLKQKQIVDRVSYLL QEIYGIENTKNNQETKPSDDENS DNSNECVVCLSDLRDTLILPCR HLCLCTSCADTLRYQANNCPIC RLPFRALLQIRAVRKKPGALSP VSFSPVLAQSLEHDEHSCPFKK SKPHPASLASKKPKRETNDSV PPGYEPISLLEALNGLRAVSPAI PSAPLYEEITYSGISDGLSQASC PLAAIDHILDSSRQKGRPQSKAP DSTLRSPSSPIHEEDEEKLSEDV DAPPPLGGAELALRESSSPESFI TEEVDESSPQQGTRAASIENVL QDSSPEHCGRGPPADIYLPALG
23211	53579	A	23345	35	3134	RPREGPTWPQLPGSSPRRLFPW SPGSSSRGLFPWSPGSSSRGLFP WSPGSSSRGLFPWSPGSSSRGLF PWSPGSSSRGLFPWSPGSSSRGL FPWSPGSSSRGLFPWSPGGSSR GSSRGHPGPPPGGSSRGHPGPP GALPVVTRVLLPGLFPWSPGSS SRGLFPWSPGSSSRGLFPWSPGS SSRGLFPWSPGSSSRGSSRGHPG PPPGALPVVTRVLLPGLFPWSP GSSSR/RTLPVVTRLLSGTLFPV VTRVLL
23212	53580	A	23346	3	91	
23213	53581	A	23347	3	174	
23214	53582	A	23348	3	360	
23215	53583	B	23349	158	368	

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23216	53584	A	23350	3786	4928	PPPARTRPCASLTPEKAKWWRS KPGLTRAPARCGLSSPQTGSCS APASAG*VSGNSRSGTRRGLRP TRG*GPCGPSSRARAISSPRAS/L RMSQRELGLWDPNNFEEPVAL QEMDTSNGVLLPFYDPDSSIVY LCGKVLTAGQGEQGTGWRCG GPCPGAPLNRLILQGDSSIRYFEI TDEPPFVHYLNTFSSKEPQRGM GFMPKRGDLVSKCEIARFYKLH ERKCEPIIMTVPRKSDFFQDDL YPTDPGPEPALEADEWLSQOD AEPVLISLRDGYVPPKHREL RV TKRNILDVRPPSGPRRSQSASDA PLSVRSALLHSGPIYISPNRPYTT RPLCPPPQQHTLETLL EEIKAL RERVQAQEQRITALENMLCELV
23217	53585	A	23351	1	1898	MSRKGPRAEVCADCSAPVGPD FALAISELVSPDIFMQSHSENAIS VKEIVTEIESISQGVGQIQLKGDI LPNPCHTPKKNSIHELLLERAQT PENKPGHMEQDEDSCTAQPEL AKDSGMCNPEGCLTTHSSIADL EEGEQLRGNKSSRAQGCTQNS KNDSSVADLAPKGKSDEAPPEH SFVLKEPEMSKGGKGYSGSEA GSLSHSEQNATVPAPRVLEFDH LPDPQEGPGPEASNGLKVSQKS EGSQPSSSRSPLEFLKEAGVPNQ TLSSGTPDPYFMALLGPKLNSR RPHLHPVSHTLDLGNPPLPQQ FAKCQRGRKGPEGKYPLHYLV WHNRHRELEKEVRAGQTLITQ TLSQANPTAITAEYFNPNFELG NRDMGRPMELTTKTQKFKAKL WLCEEHPLSLCEQVAPIIDLMA VSNALFAKL RDFITLQIPFIHLN ARITFGNLNGCDEPVPSVRGSPS SETPSPGSDSSSVSSSSTSEAPR ENACPSALPGVASCRGCEISPAL FEAPRGYSMMGGQREAA TRDD DDDLLQFAIQQLLEAGSEYDQ VTIWEALTNSKPGTHPMSYE/R SPTGQQQVPAATCSG/R YDEQL RLAMELSAQEQEERRRRARQE EEELERILRLSLTEQ
23218	53586	A	23352	341	711	

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23219	53587	A	23353	57	719	TSDLMAEIIQERIEDRLPELEQL ERIGLFSHAIEIKAIKKASDLEY KIQRRTLFKEDFINYVQRIGYSF KKDEIENSIVHRVQGVFQRASA KWKDDVQLWLSYVAFCKKWA TKTRLSKVFSAMLAIHSNKPAL WIMAAKWEMEDRLSSESARQL FLRALRFHPECPKLYKEYFRM ELMHAGKTGGRRRKNLKKPV WMWRILIIKKSLRASWHGSST
23220	53588	A	23354	27	352	TESVVTIMSLNPKPKSEMTPEE REEEEFNTGPLSVLTQSVKNNT QVLINCRNNKKLLGRVKAFDR HCNMVLE\NVKEMLTEG/DRYI SKMFLAGDPVIVVLRNPLIAGK
23221	53589	A	23355	32	575	STRLDLPKCWDYRSLFNPKPKS EMTPPEELQKREEVEEFNT\GPTP LCLTQSVKNNTQSAQSTC\RNN KKLPGAA*RPFDRASPPCSPPGT CNMVL\ENVK\EMWT*GTQEV GKGKEGSSKP\VNKDRLTSSKM FPGGGGFSSFVPCGNPFHSAG QIRGPPVLFDKNSHPLVLLKTA CHLVFENY
23222	53590	A	23356	103	713	VTSGCGKKKVWLDPNET\NEIA NANFRSADPGRLIKDGLIIRKPV TVHSRRLPEKTPLARCKGHG TLGIGKRKGTANA\RMPKEGHH GMRRMRILAPACSRRYRESKKI D\RHMYHSLYLKVKG\NVFKNK ADFSWEHIIHKAEGRARPRKEAS WLDQAEA\RRSKDQKGHGKRR EERLPGQRKEEINQRLYSKEGR RPRNKNLTL
23223	53591	A	23357	1	2847	
23224	53592	A	23358	1	2823	
23225	53593	A	23359	3	2858	AMFGFQRRGLGTPRLQLWLLL LEFWEVGSQQLHYSVSEEAKH GTFVGRIAQDLGLELAELVQRL FRVASKTHGDLLEVNLQNGILF VNSRIDREELCGQSAECSEHLEV IVDRPLQVFHVNVVKDINDNP PVFSLREQLLIAESKQSDSRFP LEGASDADIEENALLTYRLSKN EYFSLDSPTNGKQIKRLSLILKK SLDREKTPELNLLL TATDGGKP ELTGTVRLLVQVLDVNDNDPE FDKSEYKVSLMEN

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23226	53594	A	23360	194	931	NSPVVPVMASGQFVNKLQEEVI CPICLDILQKPVTIDCGHNFCPQ CITQIGETSCGFFKCPLCKTSVR\ RDAIRFNSAVAEIWWEKIQALQ ASEVQSKRKIEAT\CPRHQEMF HYFCEDDGKFLCFVCRESKDH KSHNVSLIEEAAQNYQGQIQEQ IQVLQQKEKETVQVKAQGVHR VDVFTDQVEHEKQRILTEFELL HQVLEEEKNFLLSRIYWLGHEG TEAGKHYYVEIPLMPTVERSQEA
23227	53595	A	23361	2	381	AINWTSARPVSQCWDP\CPPSQ VVCLAGLPP*RVCQNPVKGP\N CPLAHTSEPTGHCLL*TRGMCF PSLCGQLCP*SGPPDCPSPRALH HTGFCPVALLVAESQVRARAC GPEPHRAGRASRWCLHAG
23228	53596	A	23362	213	574	PQHTGTGNHSERGRQPITRSPEKP EP\CPSKRAPQTQQP\WAPSLC PPALGPCKGTRRPRVQVHRPTS SQKCPLPAWFHHLPLWPTSAAR SSSTETPTGQQMRKL RHPAAPR SANALSLGE
23229	53597	A	23363	21	456	
23230	53598	A	23364	2	98	
23231	53599	A	23365	64	241	PWPLASNPRGCLP*PSTLN*PTP SSQPGMSLDLDRHPP*TRETAS GIGGQRP GSDPARTPHFISQTQ
23232	53600	A	23366	209	353	

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23233	53601	A	23367	1766	3292	SSCPTTRVLIMKGAGHPCYLDK PEEWHGTGLLDFLQGLQLWLMH MQQLMSLAVVSGRLSRGQCGT ERPSRRAAAAAAAGQPQRGHF QHIEERLETNVQNCQSPDTLCP THCSPVLNEPCPEVSVVAVAPA SPDRMSGSDGGLEEEPELSITLT LRMLMHGKEVGSIIKKGETV KRIREQSSARITISEGSCPERITTI TGSTAAVFHAVSMIAFKLDEDL CAAPANGGNVSRPPVTLREVIP ASQCGSLIGKAGTKIKEIRETTG AQVQVAGDLLPNSTERA VTVS GVPDAIILCVRQICAVILEGFSV QGQYGA VTPAEVTKLQQLSSH AVPFATPSVVPGLDPGTQTSSQ EFLVPNDVSRGWDGWRLIGCVI GRQGVTKINEIRQMSGAHIKIGN QAEGAGERHVITITGSPVSIALA QYLITACLETAKSTSGGTPSSAP ADLPAPFSPPLTALPTASPLAC WAHPMPSPSPTLIGFKAHALLG FTTCFPRAAAGLGGLHRQDGSS
23234	53602	B	23368	1	363	
23235	53603	A	23369	486	947	LDGAGLLAPVKAHLQKKGPRL GTRGCAMPRLGSTPFLKGQCL ANSRNTLEAVSLTESSASRVPP APVLGSRRPHSPSPWP/P/Y YTP VPPPPRMALVPPNMHGQGTVG LTSVPLACTVAMLGSYKQAGA FGPLANCYGGLGHAQCWGQEF CPTQCP
23236	53604	A	23370	38	680	GSRLRRLQAAAARPALPLPLPP WEWKHLPHVPEAKWWLTAR HSAAYRADPLRVSSRDKLTEM AASSQGNFEGNFESDLAEFAK KQPWWRKLFQGQESGPSAEKYS VATQLFIGGVTGWCTGFIFQKV GKLAATAVGGGFLLQLANHT GYIKVDWQRVEKDMKKAKEQ LKIRKSNQIPTEVRSKAEVVVSF VKKNVLVTGGFFGGFLLGMAS
23237	53605	C	23371	30	200	
23238	53606	A	23372	14	161	

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23239	53607	A	23373	69	715	APALPGCEHMMMAIRELKVCLL GDTGVGKSSIVWRFVQDHFHDH NISPTIGVASFMTKTVPWENDFT KFLIWDTAGQERFSFIGLPLYYS RLQLAAVYSCYGYLPSRDFIFIT LKE\WV\KRLKELGPE\NIVMAI AGNKCDLSDIREVPPEGMLKE YAESIGAIVVETSAKNAINIEE LFQGISRQIPPLDPPMKNGKQW DHQKLRSQPMQASRRCC
23240	53608	A	23374	3	293	VTSTMAYRAQGQKV\QKVMV QPINLIFRYLQNRRIQVWLYEQ VNMRIEGCIIGFDEYMNVLVDD AEEIHSKTKSRKQLGRIMLKGD NITLLQSVSN
23241	53609	A	23375	3	393	HESCSQRQRAGCALCENSHPW RSRGPVQKSAEGLWCQPICRT SSSRYL\QNRIAGFQVWLYEQV NMRIEGCIIGFDEYVNLVLDD AEEIHSKTKSRK\QLGR\IMLK\G DNITLLQTCLPPRMVHGSGEIV
23242	53610	C	23376	129	425	
23243	53611	A	23377	470	635	ENSSSHHIIKPFSSGCSIHGFSGH INVTSVTIL*PIKSCHIRCHF*CA QYMVADN
23244	53612	A	23378	71	566	PLFPPCLSPVVAGWARGHMLG QSHQQVAAPLKHRPITPTLCQ KCLSLIKTKFLNAYITVSEEVA LKHAEESEKRYKNGQSLGDLD GIPIAEKDNFSTSGIETT\CASNM LKGYPYPYNATVDQKLLDQGA LLMGKTKLNDFAMGSGSTDGV FGPVKNPWSYSK
23245	53613	A	23379	255	1042	ILAAARMGKQNSKLRPEVMQDL LESTDFTEHEIQEWYKGLRDC PSGHLSMEEFKKIYGNFFPYG\D ASKFAEHVFRFTDANGDG\TID FREFIIALSVTSRGKLEQKLK AFSMYDLGNGYISKAEMLEIV QAIYKMVSSVMKMPPEDESTPE KRTEKIFRQMDTNRDGTWVPH LALIYRTAEGGFAVQRASVSFY PPPSAGNAMVNEAAVFLEIPLG SSPGQVSAVCHSGRKLSEEFIR GAKSDPSIVRLLQCDPSSAGQF

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23246	53614	A	23380	1	721	MDGNLRKIRFEKHAITEEFRTT EPGLAALRLPSTWIRGVRTSES KREVGKGGQSQQYENRDTEGE GHVMTKARDWSKAAASQRLP ANHLKLRLCIDGFRSHSLPEEGP KKPCQHHAQAEEPCTRSGRLPQ AHEGSISDCCTSSEQGSMDIGSV EPGTGYNLLVCHLL/STLEKRSI WAGVSRFSRYHLSRLPLARK\G NPLTPCASQLLLPLPSTTQKRQS GHALYSFPYRPQPKNDNEVMP
23247	53615	A	23381	80	562	DRAMWGDWLWLLPPASANPGT GTEAEFEKAAEEVRHLKT/RSPS DEEMLFYGHYKQATVGDINTE RPGMLDFITGKA\KWD\AWNEL KGTSKGDAVEAYLNQVVEELK KKYGDMERLDLVTVPVYPKP ETIPFFFSNTVDGWEFRENNPV KPATQRLLTHTGS
23248	53616	A	23382	380	1041	EVTINSGFIFIMLFMEHPEHYTI MHKWILTWILPTLLYRSCFHIIC LVGTISLACND\MTPEQMANTV NCSSPERHTRS\DYMEGGDIRV RRLFCRTQWYLRJDKRGKVKG TQEMKNNYNIMEIRTVAVGIVA IKGVESEFYLAMNKEGKL\YA KKECNED\CNFKELILENHNT YASAKL/WHNGGEMFVALNQ KGIPVRGKKTKEQKTAHFLP MAIT
23249	53617	A	23383	127	549	SSPKMAATMKKAAAEDVNVTF EDQ\QKINKFARNTSRITELKEEI EVKK\KQLQNL\EDACDDIMLA DDD\CL\MIPY\QLGDVFISHSQE ETQEMLEEAKKNLQEEIDALES RVESIQRVLADLKVQLYAKFG SNINLEADES

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23250	53618	A	23384	1	2050	MEYESMVISFDDRVMEKTEYG PIFTVFAMGNRMFTVTEEEGIN VFLKSKKVD FELAVQNIVYRTA SIPKNVFLALHEKLYIMLKGKM GTVNLHQFTGQLTEELHEQLEN LGTHGTMDLNNLV RHLLYPVT VNMLFNKSLFSTNKKKIKEFHQ YFQVYDEDFEYGSQ LPECLLRN WSKSKKWFLELF EKNIPIKAC KSAKDNSMDSDEDPVNLQSR ALVCEMLHVQRSSSDADAIGPH ADHLSNRWEVILADEHGIIAD DMISRYALSEKSQVELSTQVIKS ASSKSVNKSDIDTSVFLNWYNP EKKMIRAYATVIDGPEYFWCQF ADTEKLQCLEVEVQTAGEQVA DRNCIPCPIYIGDPCIVRYREDG HYYRALITNICEDYLVSVRLVD FGNIEDCVDPKALWAIPSELLS VPMQAFPCCLSGFNISEGLCSQ EGNDYFYEIITEDVLEITILEIRR DVCDIPLAIVDLKSKGKSINEK MEKYSKTGIKSALPYENIDSEIK QTLGSYNLDVGLKKLSNKA VQ NKIYMEQQTDELAIEKDVNII GTKPSNFRDPKTDNICEGFENP CKDKIDTEELEGVSQKAQESMC TEDMRKSSCVESFDDQRRMSL HLHGADCDPKTQNMNICEEEF VEYKNRDAISALMPFSLRKA VMEASTIMVYQIISQLNYRTPTL
23251	53619	A	23385	3	602	TRPPTRPGLSPDPTSPTEADRGV CERPHRCFLLPQITHPSSGRRL CLLSPTSFDLSLLYESQSDRAIF GVGTEPDQEPPIPYHEQVPVSV YHPTPISQTWVATQLTEEEQIRI AQRIGLIQHLPKGVYDPWRDG SEKKIRECVICMMDFVYGDPIR FLPCVHEWYHLDCIDDWLMRS FTCPSCMEPVDAALLSSYETN
23252	53620	A	23386	33	512	TAARCQGGPTHVPFVGTACP TRIPGHAPARQCREYYY*YYVD F/WKEPRRCHALLPPWAGLEV GMPPSHTQLGMHPAPPPHLEV KAQGVP SNRQRTDGCRWCGR ASALGGGRQDSRLRERGGGYD H/HCPICRSLKIQLKCHPASGPQ TVGLGRLASVS
23253	53621	A	23387	1	1731	
23254	53622	B	23388	1	706	

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23255	53623	A	23389	1	1986	MGIGEGPTTSEGCRSEVEYSHQ KSELPLSGDSQVPGPIGCNCDP QGSVSSQCDAAGQCQCKAQVE GLTCSHCRPHHFHLSASNPDCG LPCFCMGITQQCASSAYTRHLIS THFAP/GDFQ/GFA/LVNPQRNS RLTGFTVEPVPEGAQLSFGNF AQLGHESFYWQLPETYQGDKG EAYFARMRRAHQNRSLSEEQ LRAAVTAGRIPEPPEGRDWAQR ASQFSLSYEGFSLLPGLSLYYWQ LPRAFLGDKVAAAYGGKLRITL SYTAGPQGSPLSDPDVQITGNNI MLVASQPALQGPERRSYEIMFR EEFWRRPDGQPATREHLLMAL ADLDELLIRATFSSVPLAASISA VSLEVAQPGPSNRPRALEVEEC RCPPGYIGLSCQDCAPGYTRTG SGLYLGHCELCNCGHSDLCHP ETGACSQCQHNAAGEFCELCA PGYYGDATAAGTPEDCQPCACP LTNPENMFSRTCESLGAGGYRC TACEPGYTGGYCEQCGPGYVG NPSVQGGQCLPESELHFPVSQ PSDAGVYICTCRNLHQSNTSRA ELLVTEAPSKPITVTVEEQRSQS VRPGADVTFICTAKSKSPAYTL VWTRLHNGKLPTRAMDFNGIL TIRNVQLSDAGTYVCTGSNMF AMDQGTATLHVQGSAAEAGERS MYSISVLLKYTS
23256	53624	A	23390	3	13319	PASGRRLRAARSRRGASERESG AGRAMGWRAPGALLALLLH GRLLAVTHGLRAYDGLSLPEDI ETVTASQMRWTHSYLSDDEYM LADISGDDLGSDDLGSDFQM VYFRALVNFTRISIEYSPQLEDA GSREFREVSEAVVDTLESEYLKI PGDQVVSVVFIKELDGWVFVE LDVGSEGNADGAQIQEMLLRVI SSGSVASVVTSPQGFQFRRLGT VPQFPRACTEAEFACHSYNECV ALEYRCDRRPDCRDMS

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23257	53625	A	23391	41	1323	HYLVFFLP SLRRYTVSLSPNSTS YQLLVPGPSY/SALPISSAASLY AGA\GGSGSRMSVSHSTSLRDG ISSGGLA/TGMARGLGGMGGIQ NKKETTQSLNDSLAVRVRSLT ENRKLESKIREHLEKKGPQVRD WSHYFKTIEDLRAQIFANTVDN VRIFLQIDNARLAADDFRVKYE TELAMRQSVESDIYGLHKVIDD TNVINGCSFFMKKNHGEEVKC LQAQIASSGLTMEVDAPKSQDL AKITADISTRYDELARKNREEL DKYWSQPIEESTTEVTMQSAKV RAAEMTFMELRRTVQSLEIDL LMRNPKASLENSLREVEACYA LQMEQLNLDP/GILLHLESELTQ TRAEGQL/QAQKYKALLNIKNK LEAEIATYCLLEDGKDFNLGD TLDSSNPMQTIQKTTTSRIVDG KVVSETNDTKVWRH
23258	53626	A	23392	1	771	
23259	53627	A	23393	732	1656	SCSWTSPAAWPPNASLHSLCKR RNQDHLLLWDWRFLDFPSSMA SKCQSPLLQKKKPRPLPALGP EKTSASAGLPKKGEKEQQTIE HIHEVQNEMDRLNEQAKRSEL ISKIPDFWVTIFVNHPEVSALPG EEDDEALHYLTRVEMTDFDDIK SGYRIDFYFDENPYFENNILAKE FHLNESGDPSSKSTEIKWKYK DLMKRSSQTQNKAKHRKRQHEE PESFFTWFTHSDVGADDELGEV IKDIWPNPLQYYLVPDMDNEEG EGEEDDDDEEEGLEIDEEG DEDEGEDEDEGEKGEDEGE
23260	53628	A	23394	3	923	ARRLVVWFDFPNSMAPKRQS PLPPQKKKPRPPPALGPEETSAS AGLPKKGEKEQQAIEHIDEVQ NEIDRLNEQASEEILKVEQKYN KLRQPFFQKRSK\LSAGIPNFWV TTFVNHPQVSALLGEEDEEAL HYL\TRVEVTEFEDIKSGYRIDF YFDENPYFENKVLSEFHLNES GDPSSKSTEIKWKSGLDLTKRS SQTQNKASRKQHEEPESFTW FTDHSDAGADELGEVIKDDIWP NPLQYYLVPDMDDEEGEGEED DDDDEEEGLEIDEEGDEDEG EEDEDDDEGEEGEEDGEDD

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23261	53629	A	23395	732	1656	SCSWTSPAAWPPNASLHSCCLKR RNQDHLLLWDWRFLDFPSSMA SKCQSPLLPQKKKPRPLPALGP EKTSASAGLPKKGEKEQQETIE HIHEVQNEMDRLNEQAKRSEL ISKIPDFWVTIFVNHPEVSALPG EEDEEALHYLTRVEMTDFDDIK SGYRIDFYFDENPYFENNILAKE FHLNESGDPSSKSTEIKWKYGK DLMKRSSQTQNKAKHRKRQHEE PESFFTWFTHSDVGADELGEV IKDIWPNPLQYYLVPDMDNEEG EGEEDDDDEEEGLEIDEEG DEDEGEDEDEGEKGEDEGE
23262	53630	A	23396	3	924	ARRLVVWFDFPNSMAPKRQS PLPPQKKKPRPPALGPEETSAS AGLPKKGEKEQQ\EAIEHIDEVQ NEIDRLNEQASEEILKVEQKYN KL\RQFFQKRSK\LSAGIPNFW VTTFVN\HPQVS\ALLGEEDEEA L\HYL\TRVEVTEFEDIKSGYRID FYFDENPYFENKVLSEFHLNE\ SGDPSSKSTEIKWKSGLTKR SSQTQNKASRKRQHEEPESFFT WFTDHSDAGADELGEVIKDDI WPNPLQYYLVPDMDDEEGEGE EDDDDDDEEEGLEIDEEGED EGEEDDDDEGEEGEEDGED
23263	53631	A	23397	1	1393	MGKQKGGGPQAWEAEGLGRE WMRMPQEGKGSQRKSTQKQT KREIDAYIVQAKERSYETVLSF GKRGLNIAASPAVQAATKVLW APSPPAAPIPPLRPFGLIQLLCQG AQRWQPGSREVKGRLCQARLA ETSSIAGNLRVQSYERPVDPGV TMDPLLPGRTIVFAAGDHTLW RAPVSSCAQRSGVWSLDNMGV NSGSVPFHGVRIQASQLISLFSN FSFCEADLKTPLHGFLILPAGPK EEVTVKKEKRERDRDRQREGH GRGRGRPEVIQSHSIFEQGP MMKKKGNWDKTVDSMDGPS HIINIKKEKRETDEETKQILRML EKDDVDHHALSEHLVTTATFSI GSTGLVVDYQQVECGGHVRA DLKTQDLYSHAQFGDNNYPGG VDWYRAGGLQDSDETECWS DTEAVPRAPARPREKPLIRSQSL RVVKKRPPVREGTSRSLKVRTR KKTVPDSDVS
23264	53632	A	23398	297	584	

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23265	53633	A	23399	2	149	CMKFGAVTPIGGPPLGDQSPVL LLFAL*KRSTYNLGSSDPPAQQI SHQF
23266	53634	A	23400	1	170	PAGIRHEERSTYDLWSSDRPGQ GTSHQF*IIRFQIPWNSGPRLSE* LLPRSSRLSS
23267	53635	A	23401	1	1077	
23268	53636	B	23402	289	1359	
23269	53637	A	23403	3	2233	
23270	53638	A	23404	1	1491	
23271	53639	B	23405	76	511	
23272	53640	A	23406	1	2706	
23273	53641	A	23407	273	862	
23274	53642	A	23408	1	1080	
23275	53643	A	23409	134	675	MHYFHSSVQIGLPLTRRSQVLIL PQPLLPNPIILLSPPLTPVPAYS FIL/PTSPPPPARQFPLKKVAEAK GIVKQLKTDARS PRKPTGPSQ TLWVTLTVEDLKHAFFTIPLHP SSQPLFAFTWDPDTHQAQQIT RAVLPQVFTDSPHYFSQAQISSS SVTYLGIIHLLIKTHVLSLLIMSG
23276	53644	A	23410	1	895	MEVHKHPFNTLALRHESGCEL VWAEKHRNQIFPPKSTASPKQ WDTGRHNSDAKQQEPGGREER NTMEMETKETHFIRGPKTLASV TDWEGSLPLVFNHCRGTSLIHP RFKGVRRDACLGPSPLAASP AFLGKGQHALKGLKPVITRLLQ HGLLKPINSPFPSILPVLKPKD AYKLQNLRLINQIVLPIHPVVP NPYTLSSIPPSTTHYSVLDLKH AFTIPLHPSSQPLFAFT*TDPD H*AQQITWAVLPQGFTROPPL QLSPNFILICYLSRHNSHKNTRA LPADRV
23277	53645	A	23411	1	930	MIQEHADKQVQRLQGVLGSSIP TAASRARLHPGEINNHVAHTEP VWWSLHMDAYEIWCRGSDRR TSLGRSIPALCSLRRRIHLRPQ VLRSTSPRNISPISNPGHLSDYTP TFQGCQTMQGRLPWSFTLSGK SRFSGEGATQRQYPIPQQALKG LMPAITRLLQHGLLKPINSPYHS PILPVLKPKDKPYKLVDLRLINQ IVLPIHPMVPNPYTLSSIPASTT HYSVLYVKHAFFTIPLHPSSQP LSTFTWDPDTHQAQQIT*AVL PQVFTDSPHYFSQAQISSSVTY LGIILHENTRALPADHV

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23278	53646	A	23412	299	1028	RLGSFSSNHPYLGQRQYPIPQQ ALKGLKPVITCLLQHVLKPVN SPYNSPILPVQKLDMPYRLVQD LCLINQIVLPIHAMVPNPYTLLT SIPPSTTHYSVLDLKPAAFTIPLR LSFQPLFTFSWTDPDTHQAQQI TRAVLPQSFTDSPHYFSQAQIS* RLGSFSSNHPYLGQRQYPIPQQ ALKGLKPVITCLLQHVLKPVN SPYNSPILPVQKLDMPYRLVQD LCLINQIVLPIHAMVPNPYTLLT SIPPSTTHYSVLDLKPAAFTIPLR LSFQPLFTFSWTDPDTHQAQQI TRAVLPQSFTDSPHYFSQAQISS SSVTYLGIPGFAILTKPLYKLT GNLADPIDPKSFPHSSFRSLKTA LETAPILALPVSSQPFSLPTAEV WAAQSEFLHKNRDRTE
23279	53647	A	23413	157	202	RSECARWMEK*CPWL
23280	53648	A	23414	184	482	EGVSVFLLLSPYQGQPQVSRRC S/RQVSQRCPHRGRGPRCPQVS RSHGPSWVGHPGMPLYGSVEQF YCGAPGLAGPPNGSRGESLKIS VWIFPCRDFGNFN
23281	53649	B	23415	13	862	
23282	53650	A	23416	1	11342	MATRWFYFGHPPRDARVPRIV AEAKEKNLTPGKIIIEVDVTIEAQ IRQEFLDAERDTGGFVKFFRITK KKLQEFLGEEEEQVPHVSPVE LGAKPTAFNAFIANA V G K T L A V QHASLKAPEPEMTVTHERFYG NYAVWITDVPNRNHRIEVIHVI REISGRTSEYVNNLLAQPTPFK VFDWLTETQAKEFVRLNNTQ GVISVYNKLEDGIPVKVAVKAT EPTNKEKLEAASKLKAMGAV ATDAYEFHTDLNENE
23283	53651	A	23417	7597	7883	LSSLAWVWQWNHRISVLFHNS SVRTNLVPQFNQLVITESNSCPE FFNQTSAFFKT*VESGCM/CLQD *GIEWFRLRLDVYNSRLVFLTG ATDYCTG
23284	53652	A	23418	3	1573	
23285	53653	A	23419	6692	6793	GASVAPSIGS*STGNAIPSCLFQ QNVIVPIPQS
23286	53654	A	23420	1	17727	
23287	53655	A	23421	6687	6785	VNTGNRTWWEPLFRK*KKTQR EDTTEKKTGR
23288	53656	A	23422	1	2856	
23289	53657	A	23423	1	7194	

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23290	53658	A	23424	7460	7561	GASVAPSIGS*STGNAIPSCLFQ QNVIVPIPQS
23291	53659	A	23425	1468	1857	
23292	53660	A	23426	1	1985	MEPVGIDIIAISWIGAPEYPDNV KRAINAKVEATQKTLQREQEIQ QRVAEANMEREQAKGVADAIR LRGEALTENPNVMQLEAINKW NGLVPFITSSPGMGKSAIVRQIA EDFGLKLIDHRLSTAPEDLSGL PRFKENGRAEFAPFDELFLEG DAVPEGFNGWLLFLDEFNSAR KEIQAAAYKLVLDGMTGQKKL HPYVAIVCAGNKATDRAITNNL STAMQSRLIHLEMETDFDVFME DVAIPNKWDERVIAFLNANPNK LNDFEPDHQEKTFCSSRTWEFV NKIVSILPPGPINSEMTLLLAGTI TSGVATSFVQFTQVYSNMVSL NEILDNPKKARMPEDNNLLWA VVTSLINNTDEDNHKIFDYVE RMPFTFKVLYRSRKTDMGMT DAQLTREYDRCQAKAFMGKTA AFFGSLLCSLKFRWVKDGCOT AQTDGEHLEWNPWFESLLPE SRVTVLMHELWHVGLLHVR MGSRDPEVWNYACDIYINNQLI QDGYSFIGIENCWKDPKYAGW AEEQIYHDLMSKHPRPPKASGA FGTGSGGDMKPSTSKASLKL GSLPGVLPKMEEVITQFLKPV VPWQVLLERFFNDLQETYYSW QRPNRRYPDMYLPSSMDDDCR LEHLAYFL*NEADLTGLLVLK* TDDGQSVSGQNLLQSDEQLQIY
23293	53661	A	23427	2365	2784	
23294	53662	A	23428	5789	5980	DQNMRFDNFTETYYWKPTIIVII IRKLLMNDSSKDTLK*LRCWK NWLQILKKHTIHFIMPLQL
23295	53663	A	23429	1	6819	
23296	53664	A	23430	376	2052	SKVCGNDGFADDLKHLIFTGA QSGEDIVPFQLEDGHSLEVV LHGGSGVESGQR/CGRTSAGSC Y*SPGKICCCNLLVTKTEGFFAP VPIQLENTNQVTNCSDNW
23297	53665	A	23431	2	2189	
23298	53666	A	23432	2	1583	
23299	53667	A	23433	2142	2242	GASVAPSIGS*STGNAIPSCLFQ QNVIVPIPQS
23300	53668	A	23434	3	1188	
23301	53669	A	23435	470	862	
23302	53670	A	23436	1	1352	

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23303	53671	A	23437	1837	1955	SKCSIGLYQRYPPYSNGC*NSGCI CRVY*CCREHRGYVRN
23304	53672	A	23438	1447	1565	SKCSIGLYQMYPYSNGC*NSGC ICRVY*CCREHRGYVRN
23305	53673	A	23439	773	823	
23306	53674	A	23440	3	1529	
23307	53675	A	23441	1	1794	
23308	53676	A	23442	236	427	DQNMRFDNFTFETYYWKPTIIVII IRKLLMNDSSKDTLK*LRCWK NWLQILKKHTIHFIMPLQL
23309	53677	A	23443	8510	8611	GASVAPSIGS*STGNAIPSCLFQ QNVIVPIQS
23310	53678	A	23444	516	669	ATSELKRKASLGLMEPDVSRK* ARCSSLPSSSIGDGRYISGYLRL GRCHE
23311	53679	A	23445	410	593	FLNLIQPQGKRKLLLKRCRSLLP KN*CQHSKQHKLSISSVVILNIT NS*PNKVKLMPILAM
23312	53680	B	23446	1	2286	
23313	53681	A	23447	1418	1723	CNTNIIFNCHFPTKLGCKKAMK VVSPLIHNSIVILLNQITIDFFSTL AQICTFICLTYSKQTTTRIASFK KVIEEFLSLAPIEKVELKEHS*YI SISEKV
23314	53682	B	23448	1	6167	
23315	53683	A	23449	1	3199	
23316	53684	A	23450	1	5733	
23317	53685	A	23451	709	1099	
23318	53686	A	23452	5039	5230	DQNMRFDNFTFETYYWKPTIIVII IRKLLMNDSSKDTLK*LRCWK NWLQILKKHTIHFIMPLQL
23319	53687	A	23453	664	993	
23320	53688	A	23454	1	19859	MASIDSIACVNPRQVRKFVEHC IRSGLVPFITSSPGMGKSAIVRQI AEDFGLKLIDHRLSTSAPEDLSG LPRFKENGRAEFAPFDELFPLEG DAVPEGFNGWLLFLDEFNSAR KEIQAAAYKLVLDRMTGQKKL HPYVAIVCAGNKATDRAITNNL STAMQSRILHLEMETDFDVFME DVAIPNKWDERVIAFLNANPNK LNDFEPDHQEKTFCCSRTWEFV NKIVSILPPGPINSEMTLLLAGTI TSGVATSFV
23321	53689	B	23455	74	240	
23322	53690	A	23456	143	384	
23323	53691	A	23457	1	3267	

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23324	53692	A	23458	2	550	KRSSEHIQRIDRDVSGTLRKHIF FRDRYGTKQRELLHILLAYEY NPEVGYCRDLSHIAALFLLYLP EEDAFWALVQLLASERHSLQG FHSPNGGTVQGLDQQEHVVA TSQPKTMGHQDKKDLCGQCSP LGCLIRILIDGISLGLTLRLWDV YLVEGEQAFMPITRIAFKVQK RLTKTSR
23325	53693	A	23459	72	630	
23326	53694	A	23460	1	2835	MDALMLALGALMLALGLGDP KSAQVSDPDGAEPGPGRATGT DPLVQIHWKLGISEALSIPGGRL YRDLWSLTPVCLHIPGIAHHGP FTLGRMDVVEVAGSWWAQER EDIIMKYEKGHRAGLPEDKGPK SFGSYNNNV DHLGIVHETELPP LTAREVKQIRREISRKSKWVKM LGEWDTYKNSRKLIDRAYQGIP MNIRGPMWSVLLNIEEIKLKNP GRYQVRSARAQPTGQAVSGAQ VSSWRERQDHPGELGVKI

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23327	53695	A	23461	1	832	MGWRARWLMPVISALWEAED PIPPELTRLLQQSQDPLLMGLFP TNPKEKTQEPPGQSRAPVLT VSKFKVLAGLLHLGNIQFAASE DEAQPCQPMDDAKCEGQGVG WAGPVRKASLEQLLQVLHSTT PHYIRCIPNSQGQAQTFLQEE AGAGRRRQRRRQKQRRRRRQ LGGGGDGGNGSVGDDGATRGS RGALEKECVATPRRGLLFSRP HKLAFVAVGGSVTSVGPKPAP MDVVEVAGSWWAQEREDIIM KYEKGHRAGLPEDKGPKPFRS YNNNV DHLGIVQDFADFGTTIK QDFRLLGQTSVDRLLQLSQGQ AVKGNQLLPVSLVKRKTTLAP NTQTASPRALADSLMQLARQV SRLESGHFYDAHNPFPPPSMS KQAKKTGVPSEGLCRPGGEGQ SAVARLTGEKKNHPGAQYANR LSPRVGRFINAAGTTGFPTGKR AVSATQLIGLQLILLGEVLQKV LTASYPAQSSVPLTSGPVRQIM KEKGKRSSEHIQRJDRDISGTLR KHMFFRDRYGTKQRELLHILLA YEEYNPEVGYCMDLSHIAALFL LYLPEEDAFWALVQLLASERHS LQAARAPAAIGAHERADQAQIS LGLTLRLWDVYLVEGEQALMP ITRIAFKVQKRLTKTSRCGPW ARFCNRFVDTWARDEDTVLKH LRASMKKLTRKQGDLPKPAKPE
23328	53696	A	23462	3	497	SSECLTMAWIPLLLPLLLCTVS VASYELTQPASVSVSPGQTASIT CSGDVLAKKKYARWFQKPG QAPVLVIYKDSERPSGIPERFSG SSSGTTVTLTISGAQVEDEADY YCYSAADNNGWVFGGG\TKLT VLSQPKAAPSVTLFPA\PSSEELQ ANKAHTGVSQ
23329	53697	A	23463	1	393	FRSGSELVKAGLRAFFENAAED LEKTS ENLKLKGKFTHSRTQIKG VSQNINYTTVALLPILTSIFEHV TQHQFGMDLLLDVQISCYHIL CSLYSLGTGKNIYVEILGMPDT VEDMCPDIPQLECLMKEIN
23330	53698	A	23464	319	508	
23331	53699	C	23465	94	222	
23332	53700	A	23466	1	636	
23333	53701	A	23467	1	483	
23334	53702	A	23468	1	1797	

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23335	53703	A	23469	1	4275	
23336	53704	A	23470	1	1848	
23337	53705	A	23471	122	14928	ARSWRRRWRTTRTKRRRRKSAA AVSARRAAAGGSRGAGGWGT ADASGAMAEGGEGGEDEIQFL RTEDEVVLQCIATIHKEQRKFC LAAEGLGNRLCFLEPTSEAKYIP PDLVCNCFVLEQSLSVRALQEM LANTGENGGEGAAQGGGHRTL LYGHAVLLRHSFSGMYLTCLTT SRSQTDKLAFDVGLREHATGE ACWWTIHPASKQRSEGEKVRIG DDLILVSVSSERYLHLSVSNNGNI QVDASFMQTLWNVHPTC
23338	53706	A	23472	134	1063	RPPGLTRSPSPAPARSPTRRQS TRRRSGATTSCSQRLWATWNG CD/VCLNQLREIPTDDKGFTAI HFAAQWGKLACLQVLVEEYKF PVDLLTNNSQTPLHLVIHRDNT TVALPCIYYLLEKGADLNAQTC NGSTPLHLAARDGLDCVKVL VQSGANYHAQDAMGYKPIDFC KIWNHRACARFLKDAMWKKD KKDFAREMTKMFMFSQTL MEHNYLIEYQKEHKILREAAIR KWLHGKLHPGHSLVSNTKQAR ATALSKTPEQRESQRSRSFHPVS DARLQCIPQPTMPKPIYRKPTV KRPHNVEC
23339	53707	A	23473	1	1280	MAGLGFWGHPAGPLLLLLLLV LPPRALPEGPLVFVALVFRHGD RAPLASYPMDPHKEVASTLWP RGLGQLTTEGVRQQLGRFLR SRYEAFLSPEYRREEVIRSTDF DRTLESAQANLAGLFPEAAPGS PEARWRPIPVHTVPVAEDKLLR FPMRSCPRYHELLREATEAAEY QEALGWTGFLSRLENFTGLSL VGEPLRAWKVLDLTMCCQA HGLPLPAWASPDVLRTLAQISA LDIGAHVGPPRAAEKAQLTGGI LLNAILANFSRVQRLGLPLKMY MYSAHDSTLLALQALGLYDG HTPPYAACLGFEFRKHLGNPAK DGGNVTVSLFYRNDSAHLPLPL SLPGCPAPICPLGRFYQLTAPAR PPAHGVTCHGPYEAIPAPVV PFLAGAVAVLVALSLGLGLLA WRPGCLRALGGPV

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23340	53708	A	23474	133	672	AVGWESGKWDSGRGQGGGQE QMWSCQSDMLYPDQVGAWG LPGPTGPKGDAGSRGPMGMRG PPGECQCCPTAPLAIPSTRWAL PCSWPPGPPGPPGPPAPVGPPHA \GSPSMVSPGIPAGGGGGGGVAI STVPATIKTRRQEVSPELRP/PG PAPPPGPDVRPWLLRPPGPMGK LSPGQG
23341	53709	A	23475	135	677	AVGWESGKWDSGWGQGGGQE QMWSCQSDMLYPDQVGAWG LPGPTGPKGDAGSRGPMGMRG PPGECQCCPTAPLAIPSTRWAL PCSGPPGPPGPPGPPAPVGPPHA \GSPSMVSPGIPAGGGGGGGVAI STVPATKKTRRQEVSPELRP/P GPAPPPGPDVRPWLLGPPGPMG KLSPGQG
23342	53710	A	23476	220	745	TVIQRGLHVSVPDGPQGLRE AKLGTMVRLVLLPTPRRTTEVR TGPERSMVLAILGSLLETAC DHRQTPPSSKPQA/GSSRLREGT SAGQPCS/LRLRLGPRAGGRRC CRDIERSSSSSVCGRKCKRKKR KRGMCQSRHKHGCRRPQEGPR CNDGRALCSPRPQTTPGPLSTA
23343	53711	A	23477	1	2433	
23344	53712	A	23478	3	803	FPGRFRVRACVAGGSHCLFNS CCCCTASLPARERHEWGPAA AAAAAAAAAARRSQTQREGLFA GWGGGFAMSDDDSRASTSSSSS SSSNQQTEKETNTPKKKESKVS MSKNSKLL\SPRAKGIQKEL\AD ITLDPPPNCSAGPKGDNIYEW STILGPPGSVYEGGVFFLDITFTP EYPFKPPKVTFRTRIYHCNINSQ \GVICLDILKDNWSPALTISKVL LSICSLTDCNPADPLVGSIAATQ YMTNRAEHRMARQWTKRYA T

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23345	53713	A	23479	372	1839	GEAGGTEAEPENGAGGPRVPG WWGWSSTSSPRGCWDSGRSAA AIMDFLWDKRTGLAARKMPHP RRYHSSERGSRGSYCEHYRS/R K/HKQRRSRWSSSSDRTRRRR REDSYHVRRCRSTFSRSSSQH SSRKAKSVEDDTEGHLIYHVG WLQERYEIVSTLGKGTFRVV QCVDHRRRGARVALKIKNVE KYKEAARLEIKVLEKINEKDPG KNLCVQMFDWFDYHGHMCISL ELLGLSTFDLKDNNHLPYPIH QVHHMASQLCQAVKFLHDNK LTHDLKPENILFVNSDYELTY NLEKKRHERSVKSTAVRVGDF GSATFDHEHHSTIVSTRHYRAP EVILELGWSQPCDVWSIGCIIFE YYVGFTLFQTHDNRQHLATME RILGPIPSRMIRKTRKQKYFYRG RLDWDENTSAGRYVRENCKPL RQYLTSEAEEDHQLFDLIESML EYEPAQRLTLGEALQHPFFSRL WAEPNKLWDSSQDISP
23346	53714	A	23480	28	941	QSARPSLKRARSQRGRPLPSRA LVFLFLFFFFFFNFLPIHTQPSAH KDMTTNAGPLHPYGPQHL\RLD NFVPM\DRPTWAYTGLGLFSVT GGLRSWTTWAVVQGRAAGCPI GDFGRATVPCCWVLQCVGFIH LVIEGLVPFSNYERPCFGDQSL NLKLWKEYGQGETARLHPGG DKFHSVALGTITSFAIWGEFSL WVIA\FLLQHPL\RFIL\QLVVS VG\QIYG\DVFYFLKEHPRRDS KHGKPGPTPLLLPGFSFVFHEM PLWLVPAPGSPLCLDA\VKAPS THAPEHAWNAKGPQPKSKKN

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23347	53715	A	23481	1	1386	MWRNLKLPDLLNGFDQNADS DMDNEVQAEVVTGDGEELIGN WSKGHSCYILAKRLAAFFPCPK DLWKFELEERDDLGYLAEEISS EAFKSVSYEKAHAWNPLESTC RHASLALAVVLQRRDWENPAG VTQLNRLAAHPPFASWRNSEE ARTDRPSQQLRSLNGEWRLMR YFLLTHLCETLVKVKDAEDQL GARVCVLERQIFDFLGYQWAPI LANFVHIIIVILGEFGTIQYRPRY ITGILSFPKHQESLSLKFTCLTEA ERDTDALLHLENACRESTATQR IQGFFLKDKKRKKQQPQQQKQ QQWAKVQLGPWLQRVQAPSL GSFHGVLRLVHRSKELRFRNC CLDFRGCMEMPGCPGRGVLQA QNPRGEPLLGQCRREMCGGSP YIVPTGALPSGAVRRRPPSSRPH NGRPTDSLHCVPGKAADTQHQ PLKAARRAAVPCKATGSELPK
23348	53716	A	23482	3	732	SPLTPTATSGNPSKASSPGGLGS LVSTASSLPAGEKNSPRTGPGP RRAGVAGIPNSGPDTEGYPYNL CGRQGRWGGLIISLASEMKLQT LQTSVTTAKATLLELFVPLGGL VASLASEVRLQIFPRGGHLQSA KCGLLLHFSLPTRSRRKANR PMAVTVLLVLIRDCADLLAVK AVIHICYDQWPLRGSSRPANTP PPKASVSRPPGHRGVRRGSPL LQVGARRVGAEAPALLELQSPS
23349	53717	A	23483	1	234	
23350	53718	A	23484	1	256	MLNLQGKEWLELEEDAQKAYI MGLLDRLEVVSRRRLKVARA VLYLAQDGEKFCPKRDCTNNS/ RY/NSI*MIQMMRFGTLELMRL
23351	53719	A	23485	1	3333	
23352	53720	A	23486	1	2661	
23353	53721	A	23488	3	433	

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23354	53722	A	23489	3	990	EKMNTADQARVGPADDGPAPS GEEEGEGGGEAGGKEPAADAA PGPSAAFRLMVTRREPAVKLQ YAVSGLEPLAWSEDHRVSVST ARSI AVL ELICDVHNP GQDLVIH RTSV P AP LN SCL LK V GSKTEVA ECKEKFAASKDPTVSQTFMLDR VFNPEGKALPPMRGFKYTSWSP MGCDANGRCLLAALTMDNRL TIQANLNRLQWVQLVDL TEIYG ERLYETSYRLSKNEAPEGNLGD FAEFQRRHSMQTPVRMEWSGI CTTQQVKHNNESRDVGSVLLA VLFENGNI AVWQFQLPFVGKES ISSCNTIESGITSPSVLFWWEYE HNNRKMSGLIVGSAFGPIKILPV NLKAVKGYFTLRQPVLWKEM DQLPVHSIKCVPLYHPYQKCS SLVVAARGSYVFWRLLLISKAG LNLHNSHVTGLHSLPIVSMTAD KQNGTVYTCCSSDGKVRQVPIF TDVALKFEHQLIKLSDFVGSVR THGIAVKPCGAYLAITTEGMIN GLHPVNKNYQVQFVTLKTFEE AAAQLLESSVQNLFKQVDLIDL VRWKILKDKHIPQLQEALEKK IESSGVTYFWRFKLFLLRILYQS MQKTPSEALWKPTHEDSKILLV DSPGMGNADDEQQEETSSKQ VVKQGLQERSKEGDVEEPTD\D SLPTTG\ DAG\ GREPMGRNSW GNSK GKIRSCWEMRLTREHMK
23355	53723	A	23490	1218	1446	RCTDSQVRSPTPLHLAAQACSL ETTVCLLCSKADYTLSEKRGW MPIHFAAFYDNVCIIALCRKDP SLLEAEATAE
23356	53724	A	23491	2	632	NMAKTYDYLFKLLIGDSGVG KTCVL\RFSEDAFNSTFIFTIRI DFKIRTIELDGKRIKLQIWDTAG QERFRTITTAYYRGAMGIMLVY DITNEKSFDNIRNWIRNTEEHAS ADVEKMILGNKCDVNDKRQVS KGS/GENKLALDYGIKFMETSA KANINVENAFFTLARDIKAKMD KKLDGNSPIQGSNQGKVKITPDQ QKRSSFFRCVLL

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23357	53725	A	23492	1	1018	MVIFYHVGQAGLELLTSGPHCP DSQAADKAESATLLSRARLGA YCACASLERRWPHFPSGRECN MAKTYDYLFKLL\IGDSGVGK TCVLFRFSEDAFNSTFISTIGIDF KIRTIELD GKRIKLQIWDTAGQ ERFRTDHNRPTYRGAMGI\ML VYDITNE\KSF\DNIRN\WIRNIE EHASAD\VEK\MILGNKCDVND KRQVSKERGEKLALD\YGIKFM ETSAKANINVENAFFTLARDIK AKMDKKLGPARPHGTLLGKGE EFAGVAGASASGSASLGTLPKQ TRPCPVNPQASREHTAFSIPKQ QKDNMEGNSPQGSNQG VKITP DQQRSSFFRCVLL
23358	53726	A	23493	1	130	
23359	53727	A	23494	1	1392	
23360	53728	A	23495	445	649	YPSLTNSKLLVHH\FMELC\WD KCVEKPQGIALDSRTENCLSSC \VDRFIDT\TLAITSRFAQIVQKG GQ
23361	53729	A	23496	210	397	VIYAPGKKAQRTQK/APKTKTK KPHLSPCPSP/WRSRSCQPMQQS WSGAQVHIPQPPHTTCITWA
23362	53730	A	23497	55	286	QASSPPISSVTCRKALPPGQTK KGLVASGDPEPVSMGTSSPTPS LAPEHSSRASLEPSSSA*PSLAT* SRAGGSQA
23363	53731	A	23498	780	1022	QAMHGRSPGVTVRASGLRNEG DGPLGSVPTQARATGAPGHSAT PSPA WRA WSSSSKAS/WLPDA AGPPTPPWSGSPSPPTSW
23364	53732	A	23499	1	782	
23365	53733	A	23500	275	688	

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23366	53734	A	23501	1166	2271	LRCILTLISRWCS*VSTVANLPP GISKWGANWQRCCEMKE*CWSP AVTWCITCAQRSG/IGDSSPYPG ATSFNEYVKANLTWRGPVEQH PLVNYLDHERGTLSNPTARHYL PVLVYLRAILWARTPLPIGRRTT VSKVKMKKRILRAMRQKQQVL PLLVGLGLDELSMSAPSIPAAK ARMAQLDSRECRKLLNQAMA CRTSLEVEHLLAQFRMTQQDA PLVTAECITLES DWSKEEVVK GMTDNLLLAGRCRYPRKLEAD LWAREAVFSTGLGFSFAIPHSK SEHIEQSTISVARLQAPVRWGD DEAQFIIMLTLNKHAAGDQHM RIFSR LARRIMHEEFRNALVNA ASADAIASLLNMNWTVKEHHE
23367	53735	A	23502	1	2604	
23368	53736	A	23503	306	468	TRHCDRRQPRGRHRRAGT/CNQ I*KGCCCVRTKQPLSSVLISPNF CPCSSFLKNS
23369	53737	A	23504	102	509	AAQQGTMARSLLLPLQILLLSL ALETAGEEAQGDKIIDGAPCAR GSHPWQVALLSGNQLHCGGVV VNERWVLTAAHCKMNEYTVH LGSDDL/E/ADRKAQRIKPSKSF RHPGYFTQTHVNDLMLVKLNS QARLSSMVK
23370	53738	A	23505	1	1032	MMQATVGFEDGDAATSQVSPS VNKVHSSYFLDFFEEYIVIAFKI LRRGPDISCSQIINGEDCSPHSQP WQAALVMENE/LFCSGVLVHP QWVLSAAPVSRKYNRPLLAND LMLIKLDESSES D TIRSIASQ CPTAGNSCLVSGWGLLANDPT SR/LPPPLECRNPVPQLLLPPEKP RTAPDTLGSSPVKSRGTSSGSS FLLPAPPSPFPRPHHGTPPTSCG QDVDVPALAGGSLGSPAGEAL PRLAAPERLSRHGKIPSPAPAD LTAILALETAGEEVFPPLTSCA WMSSSSPPGLHEGLQGLTGKFH AVRWH PRLQEKRLQSVSPDSR IPGARRPAAR
23371	53739	A	23506	303	393	

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23372	53740	A	23507	391	1170	GSFFFFKYFAYSPMPKNSKV KREDDDDVTESVKDLLSNEDA ADDAFKTSELIVDGQEEKD TDV EGK\SEVEDERPAWNSKLQYIL AQVGFSVGLGNVWRFPYLCQK NGGVVEPECEQSSATTYYWYR EALNISSSISESGGLNWKMTICL LAAWVMVCLAMIKGIQSSGKV NTYDRVTMSATVLALQEQWQT FSPIRSGNGHLTGSGAQRTPCRI RRGGSQRLRVCDDGGKQQWWTV SQSSARAITNTDQKSVQLQDLIE
23373	53741	A	23508	45	546	EGGGSRLWFRELIGQPVQSFIE PVAAGGAVALNVQ/RSCGVVS AAPACL*SRPHSWRWGGPACW RTPGG/LASRSSSSASILMSSSRA SFTRSLSLSTHKDQGLVCSGSS GATGAGSC/LWPPTSHTVKLMF LYSTVSTLKPMVGMVVTISP SL*RIVVFPAASRPT/YEDAHFFF CQKGP*RGSSSLQHPGPP
23374	53742	A	23509	1367	2142	VRRPQGCGLGRSLLSRVCALVP WGIWP/WSLAVGPQYSSLGSQP ILCASIPGLVPKQLRFCRNYVEI MPSVAEGIKIGIQECQHQRGR RWNCTTVHDSLAIFGPVLDKG YFGYLETITVPSDSVVSTKAETP DKGVCGRELGRGGWLPELQS LDEISMGWALCSRLQIKATRES AFVHAIASAGVAFVTRSCAEG TAAICGCSSRHQGSFGKWKW GGCSEDIEFGGMVSREFADARE NRPDARSAMNRHNEAGRQV GSPPARVLGKKEPPQQGVCPGS LGHMARSLAVGPQYSSLGSQPI LCASIPGLVPKQLRFCRNYVEI MPSVAEGIKIGIQECQHQRGR RWNCTTVHDSLAIFGPVLDKG YFGYLETITVPSDSVVSTKAETP DKGVCGRELGRGGWLPELQS LDEISMGWALCSRLQIKATRES AFVHAIASAGVAFVTRSCAEG TAAICGCSSRHQGSFGKWKW GGCSEDIEFGGMVSREFADARE NRPDARSAMNRHNEAGRQ

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23375	53743	A	23510	2094	2619	ASPASPAPCSGIPRT*SPYPSPSR TQVAPRARGPAIHHPGP/RGCT ALPRQGPPTPGSARAPPRIPAHR APTSTLNFCLASSRQSMPPAPR PPPVPATNPVTPGCGRPPPTLGC RNPQTLRPPPLPSPALLRRPLP PPARVGMPPHPPLPTTPACWR PVDWARAEGAGRAVC
23376	53744	A	23511	3050	3317	PARTSPSASGPP**DLISALWTPS QPRAPTRQSLNSLSSSAPSSSTIG PSPSPAPGPAPPLPWLPSPSSL PRLSQVSRRPHSHLHPQ
23377	53745	A	23512	862	2954	AEHTLLVCFLNTSLTTTSTHVES FGGQLRGSQIGHPRRPNKMPYA WSIPQDPPLKPERDPGGPLGVS LSLPVNQYGESEPMGDDDDYD EYSKELNQYRRSKDSRGRGLSR GRGRGSRGRGKGMGRGRGRG GSRGGMNKGGMNDDDFYDE DMGDGGGGSYRSRDHDKPHQ QSDKKGKVICKYFVEGRCTWL YHTTGNCINGDDCMFSHDPLTE ETRELLDKVEMTGSSVFDYIHP GDHSEVLEQLGLRTPTPGPPTPP SVSSSSSSSSSLADTPEIEASLTK VPPSSLVQERSFFVRMKSTLTK RGLHVKASGYKVIHVTGRLRA HALGLVALGHTLPPAPLAELPL HGHMIVFRLSLGLTILACESRVS DHMDLGPSELVGRSCYQFVHG QDATRIRQSHVDCETHLHPPSL PTTPQTRASHSLVPGSPSSGLPT VPPAAPTAPGTPFSIGRAARRLS DASGLLDKGQVMTGYRWLQ RAGGFVWLQSVATVAGSGKSP GEHHVLWVSHVLSQAEGGQTP LDAFQLPASVACEEASSPGPEPT EPEPTEGKQAAPAEAEAPQTQ GKRIKVEPGPRETKGSEDSGDE DPSSHPATPRPEFTSVIRAGVLK QDPVRPWGLAPPGDPPPTLLHA GFLPPVVRGLCTPGTIRYGPAEL GLVYPHLQRLGPGPALPEAFYP PLGLPYPGPAGTRLPRKGD

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23378	53746	A	23513	1319	2211	GSKVYGSLFHINHGPNPFNMEVL VDSWPEYQMVIIRPQ/ETVRGE EKVQGNDLTFHHPTQEMTDDM DSYTNVYRVFSKDPQKSQEV KNSEIINWKQKLQIQGFQESLG EGIRAAAFSNSVKVEHSRALLF VTEDILKLYATNKSGLGSAET GHPDDELESETPNFKYAQLNVS YSGLVNDNWKLGMNKRSLRYI KRCLGALPAACMLGPEGVPVS WVTFMDPSCEIGMGYSVEKYRR RGNGTRLIMRCMKYLCQKNIPF YGSVLEENQGVIRKTSALGFLE ASCQWHQWNCYPQNLVPL
23379	53747	A	23514	234	858	SVPLQESPLPPPTHQADC*SPC GAQGGWVTLAVASASS*AHTA SPLPRSPQAQGRASPAPPQIHL TTPSSFSSQGT/SHGGLGSTPGA DDPNTSSSIPPGGSTPRWSAGD SAHSGGEVDGWS*SFP*SVPSY GT*SPFCPWSSGQRSFHGIASG WEPDGIPDGSSRWEPCGKPQES ETGVEGRQHFPKQLCLGSCRA VASPRVARA
23380	53748	A	23515	1	3582	
23381	53749	A	23516	628	4254	RLPESRAHDVAGADERPWPVH AGIFKSPAAGAAMSPAAAAAG AGERRRPIASVRDGRGRGCGGP AGAALLGLSLVGLLLYLVPAA AALAWLAVGTAAWWGLSRE PRGSRPLSSFVQKARHRTLFA SPPAKSTANGNLLPRTLLEGP DPAELLLMGSYLGKPGPPQAP APEGQDLRNRPGRRPPARPAPR STPPSPPTH RVH HFYPSLPTPLL RPSGRPSPRDRGTLPDRFVITPR RRYPIHQTQYSCPGVL
23382	53750	A	23517	1	392	KVHMNGLRYALYIMGPALTRG CHQVLIMLCCEVIERILT/VMM KEAYFGEVDIMDDLPTGNISA NVTGRLYKCGVINHTVDLRRM KT/EKWQNNLLPSRQFGFIVLTT SAGIMDHEEARRKHTGGKILGF
23383	53751	A	23518	227	352	

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23384	53752	A	23519	3	507	SFRAATMVRMNVLADALKSIN NAEKRGRQVLIRPCSKVIVRF LTVMMKHGYIGEFEEIDDHRAG KIVVNLTGRLNKVGQWRDLG YCNLCLPGSSDSSASASLVAEIT CGVISPRFDVQLKDLEKWQNN LLPSRQFGFIVLTTSAGIMDHEE ARRKHTGGKILGFFF
23385	53753	A	23520	279	653	ARAQRFSSQVDVFYLIQSVIFCR LALAEFEIIDD PQSLGKLL*TLT GRLKQ/CLGVISPRFDVQLKRP WKKWHEIIL/PSNPAKFGFIVLT TSAGLHG/HHEGRQDRKHTGG KILGILLYRDVIHIFT
23386	53754	A	23521	1	392	KVHMNGLRYALYIMGPALTRG CHQVLIMLCCEVIERILT/VMM KEAYFGEVDIMDDLPTGNISA NVTGRLYKCGVINHTVDL/PPY ENGKWQNNLLPSRQFGFIVLT SAGIMDHEEARRKHTGGKILGF
23387	53755	A	23522	108	371	LSYIGKFEIIDDHRAGKIVVNLT GGLNKCGLVISLRFDVQLKDLEK WQNNLLPSCQFGFIALTTAGI MDHKEAR*KHTAGKILEFFF
23388	53756	A	23523	252	378	
23389	53757	A	23524	3	518	HASAFRAATMVRMNVLADAL KSINNAEKRGRQVLIRPCSKVI VRFLTVMMKHGYIGEFEEIDDH RAGKIVVNLTGRLNKVGQWR DLGYCNLCLPGSSDSSASASLV AEITCGVISPRFDVQLKDLEK\ WQNNLLPSRQFGFIVLTTSAGI MDHEEARRKHTGGKILGFFF
23390	53758	A	23525	279	709	ARAQRFSSQVDVFYLIQSVIFCR LALAEF*NPLMTHQSLGKFVVN PHRAGLNKCGVISPQILTVQLQ RPWKKWAGLILLPSRQVLGFI VLTTSAGIMDHEEARPKTPRR GKSWGFFFLGDVNYILFYKLKC LMDSGASTWSF
23391	53759	A	23526	207	564	SMAKEAISINRSLWAGPAKISSP AETEMESLISLFQKYVGKGGYN CTLSKTEFLSFMNAELAAFTKN QKDPGVLHRMMKLGTTNDG QLDFSEFLNLIGGLAMACHDSF LKAVPSQKRT

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23392	53760	A	23527	1	407	FREKQSQELSQYGAMGAGQSF NSQFLQHGGPRGPSVPAGMNP TGIGGVMGPSGLSPLAMNPTRA AGMTPLYAGQRLPQHGYPGPP QAQP/PAPTGGQENLL*GVSRA AVSARSLPGPFRAIPVSHLAGNP TPPMNPH
23393	53761	A	23528	3	315	
23394	53762	A	23529	1	763	DYEEITIDPTCSWKPVVPVKPDM HIKEPDGPALKRCRTVSPAHV LMPSVMEMIAALGPGAAPFAPL QPPSVPAUSDYPGQGSSFLGPGT FPESFPPTTPSTPTLAFTPGPPPI CYQSDIPSSLLTSEKST/SLPLQA RR/PPAGHLDPHTNPGLHTS NLGAPPGQLHHSNPPASRQS LGQASLGPTGELAFSPATGVMG PPMSGAGEAPEPALDLLPELT NPDELLSYLGPPDLPTNNDDL LSLFENN
23395	53763	A	23530	1	2901	MERRGPGAATARGRARGGGP SVGLLATGSSLNPSFHGVARIVP GFIRIARPRDGSFAYESVPWQQS ATQPAGLSVVTTVWGVGNAT QSQVLGNPMGPAGSPSGSSMM PGVAGGSSALTSPQCLGQQAFA EGGANKGYVQQGVYSRGGYP GAPGFTTGAYAGGPGGLGLPSH AARPSTDFTQAAAAAAVAAAA ATATATATATVAALQEKQSQE LSQYGAMGAGQSFNSQFLQHG GPRGPSVPAGMNP TGIGGVM
23396	53764	A	23531	80	412	KPGNGACAGREWCDGGGAAW NWRDPGLPVGDSGVWDRVLE LLGPRSPRPLDVGGPAAGTPGV LSR/HLPVDCGLGPEALLCSSAP AARRPSLCGGHGRVMRGFRLG CGFRP
23397	53765	A	23532	1	192	RPLDVGGPAAGTPGVLSR/HLP VDCGLGPEALLCSSAPAARRPS LCGGHGRVMRGFRLGCGFRP

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23398	53766	A	23533	1	2094	RPLDVGGPAAGTPGVLSRPCPS TAALAPKPFCAAPRPQPDAPAC AGATGGSCADFDGVDVRRR SSGLWGPQPPLFPVKNYTEMFQ DPVAFKDVAVNFTQEEWALLD ISQKNLYREVMMLDTFWNLTSIG KKWKDQNIIEYEQNPRRNFRS VTEEKVNEIKEDSHCGETFTPV PDDRLNFQKKASPEVKSCDSF VCGEVGLGNSSFNMNIRGDIGH KAYEYQEYGPCKPCQPKKA FRYRPSFRTQERDHTGEKPYAL LKNDGKKPLFYHSSIQRHMVV HSGDGPYKCKFCGKAHFWLSL YLIHERHTGEKPYECKQCGKS FSYSATHRIHERTHIGEKPYESQ ECGKAHSPRSCHRHSHMGE KAYQCKECKKAFMCPRYVRRH ERTHSRKKLYECKQCGKALSSL TSFQTHIRMHSGERPYESCKTCG KGFYSAKSFQRHEKTHSGEKPY KCKQCGKAFTSGSFYHERTH TGEKPYECKQCGKAHERHTG EKPYECKLYGKALSRLISFRRH MRMHTGERPHKCKICGKAFASS PSSFQRHERSHTGEKPYKCKQC GKAFTCFHFQYHERHTGEK PDGCKQCGKAFRSAKYIRIHGR THTGEKPYECKQCGKAHFWVS SFHRHERTHAGEKPYECKHCG KAFTCSIYIRIHERIHTGEKPYQ CKECKKA FIRSSYCRKHERTHTI

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23399	53767	A	23534	48	1317	CGLMDELVHDLTSALEQTSEQ NKLGELEWEEMALSPRQRRQL RKRRGRKRRSDFTHLAHTCC YSEASESSLDEATKDCREVAPV TNFSDSDDTMVAKRHPALNAI VKSKQHSWHESDSFTENAPCRP LRRRR\KVKRVTSEVAASLQOK LKVSDWSYERGCRFKSAKKQR LSRWKENTPWTSSGHGLCESA ENRTFLSKTGRKERMECETDEQ KQGSDENMSECETSSVCSSTDT GLFTNDEGRQGDDEQSDWFYE GECVPGFTVPNLLPKWAPDHCS EVERMDSGLDKFSDSTFLLPSR PAQRGYHTRLNRLPGAAARCL RKGRRLVGKETSINTLGTERIS HIISDPQKDFWLPSAGKRERN QFNPLSPYSLDLADASHRRRC SPAHCSARQANVHWGPPCSRDI KQEAETSGHSIFV
23400	53768	A	23535	225	403	
23401	53769	A	23536	1	403	REQEFLHMAPGEVTITVR\LR LEHR\NFKPVVYHGVNLDQTV KEFIVFLKQDIPLRTNLPPFRN YKYDALKIIHQAHKSKTNELVL SLEDDERLLLKEDSTLKAAGIA SETEIGIFREEDYRNYKANPISS
23402	53770	A	23537	2	239	
23403	53771	A	23538	2	214	
23404	53772	A	23539	1	1341	
23405	53773	A	23540	1	1677	
23406	53774	A	23541	1010	1509	
23407	53775	A	23542	1	6355	
23408	53776	A	23543	223	10504	VKMPIGSKERPTFFEIFKTRCNK ADLGPISLNWFEELSSEAPPYNS EPAEESSEHKNNNYEPNLFKTPQ RKPSYNQLASTPIIFKEQGLTLP LYQSPVKELDKFKLDLGRNVP NSRHKSLRTVKTMDQADDVS CPLLNSCLSESPPVLQCTHVTP QRDKSVVCGSLFHTPKFVKGR QTPKHISESLGAEVDPDMSWSS SLATPPTLSSTVLIVRNEEASET VFPHDTTANVKSYSNHDESLK KNDRFIASVT
23409	53777	B	23544	137	709	
23410	53778	A	23545	1	1974	

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23411	53779	A	23546	207	1622	MACCLSDDEVKESKRINAEIEKA AAAE TRRDARREL/RRLLLLGT GESGKSTFIK\QMRIHAGYSE EDKRGFTKL VYQNIFTAMQAM IRAMETLAKILYKVRSTRANA LILIRGGGTLEKVTTFGAFSYVQ LPLKDLFGRDPGIQE/CAYERQP RSYQLSDSAKYLLTDVDRIATL GYLPTQQ\DV PAGSRVPTT\GIIIE YFPDLENII\RMVDVGG\QRS\IE RRKWIHCFENVTSIMFLValse YDQVLVESDNENRMEESKALF RTIITYPWFQNSSVILFLNKKDL LEDKILYSHLVDFPRSSMGPQ R\DAKAAEFILKMFVDLNPNS DKII/YTSHFTCPHRHRRTSRFVF PAVKDTILQLNLEEYKPGLSAP GPGRRDGDTGQDLPSTEPAAA RAGGAAESGPGLPAGGDDFFF IFLTNGFYFTVIRGCTSLPPYTSR TFSPFVNGKGSFLALTYGSLFS KKKKKKKE
23412	53780	A	23547	1	401	KKVPGRLSEMSFSLNFTLPANT TSSPVTDCGPSLGLAAGIPLL VATALLVALLFTLIHRRRSSIEAM EESDRPCEISEIDDPKISENPRR SPTHEKNTMGAQEAHIYVKTV AGSEEPVHdryRPTIEMERRR
23413	53781	A	23548	584	1071	PCRLPLHLILVEDLSFSLNFTLP ANTVSTAAPIHQAT/PEKTSAEF TDCGPSLGLAAGIPLL VATALL VALLFTLIHRRRSSIEAMEESDR PCEISEIDDPKISENPRRSPTHE KNTMGAQEAHIYVKTVAGSEE PVHdryRPTIEMERRRGLWWL VPRLSLE
23414	53782	A	23549	25	654	LFLQMKDTSPIIFVRKELTIRQC TKKVPGRLEMSFSLNFTLPAN TTSSPVTGGKETDCGPSLGLAA GIPLL VATALLVALLFTLIHRR RSSIEAMEESDRPCEISEIDDPKI SENPRRSPTHEKNTMGAQEAHI YVKTVTKSEEPVHdryRPTIE MERRRGLWWLVPRLSLGMMP TSNQGSHQTWHLGTGLKTQGF VLGEERCQAAS
23415	53783	A	23550	108	413	RRSGSMALWRA YQRALAAHP WKVQVLTA/GLLGRKAALLAP CQ*L YLPTQASWTEGHASCSL QEATSCPSAFCA*NSKATKQLV ERRGLQEHQGRGRTLTMVS

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23416	53784	A	23551	1	146	
23417	53785	A	23552	2	442	GREARRSRSMALWRAYQRALA AHPWKVQVLTAAASGEEGSTA GMPVAIPADPGLLD*RTRFLLL TPRSHFLPLCLLRMKLKSHKRS LMGLGDIISQQLVERRGLQEHQ RGRTLTMVSLGCGFVGPVVG WYKVLDRFIPGTTKQVDA
23418	53786	A	23553	3	675	RHSRFGAQGSMAWRAYQRT LFAALPWK\QVLTAGSLMGLG DIISQQLVERRGLQEHQRGRTL E/TMVSLGCGFVGPVVGWYK VLDRFIPGTTKVDALKKMLLD QGGFAPSFLGCFLPLVGALNGL SAQDNWGQTTAGELG/RDYPD ALITNYYLWPAVQ\LANFYLVP LHYRV\AVVQCVAVIWNLS WKAHRALSLPHSIVSTLQVMQ LDPWNGSDNPPQKWA
23419	53787	A	23554	512	1227	LQGHLMGIMAASRPLSRFWEW GKNIVCVGRNYADHVREMRSA /VWLSEPVFLKLPSTGVRAQRA RPILMPAYTRNLHHELEL\ALVI GQ\RCRAVPE\AAAMDYVGGY ALCL\DMTAWDVQASARKKG LAWDSGE/DAFTASCPVQRVSL PKEKIPDPSQLKALGFKVNGEL RQGETSSMIFSIPYIISYVSKIIT LEEGDIILTGTPKGVPVKEND EIEAGHTRAGQYDHLKVEKAQ
23420	53788	A	23555	192	436	RTSDHECFREGQICSVCLRERL NLNPEEACLLSQAPCMLFVLQY LNTVIPYEKKASPPSV\EDLQML \TNILFAMKEDNEKVP

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23421	53789	A	23556	94	1252	ARMEAPLVSLDEEFEDLRPSCS EDPEEKPCFYGSSPHLEDPSL SELENFSSEIISFKSMEDLVNEF DEKLNVCFRNYNAKTENLAPV KNQLQIQEEEEETLQDEEVWDA LTDNYIPSLSEDWRDPNIEALN GNCSDTEIHEKEEEEFNEKSEN DSGINEEPLLTADQVIEIEEMM QNSPDPEEEEEVLEEEDGGETSS QADSVLLQEMQALTQTFNNNW SYEGLRHMSGSELTELLDQVEG AIRDFWE\ELVQQLARRDELEF EKEVKNSFFTVL\IEVQNKQK\E QRELMKKRRKEKGLSLQSSRIE KGNQMPILKRFSMEGISNILQSG IRQTFGSSGTDKQYLNTVIPYEK K\AYPPSVEIDLQMLTNILFAM KEDNEKVPYFA
23422	53790	A	23557	391	1169	GSFFFFFYFAYSPMPKNSKV KRELDVVTVESVKDLLSNEDA ADDAFKTSELIVDGQEEKDQDV EGK\SEVEDERPAWNSKLQYIL AQVGFSVGLGNVWRFYLCQK NGGVVEPECEQSSATTYYWYR EALNISSSISESGLNWKMTICL LAAWVMVCLAMIKGIQSSGKV NTYDRVTMSATVLALQEQQWT FSPIRSGNGHLTGSGAQRTPCRI RRGGSQLRVCDGGKQQWWTV SQSSARAITNTDQKSVQLQDLIE
23423	53791	A	23558	321	568	CLWCGASWPRRHSSPGRPAD HRGDRP/EGPDTQGPGRPEPSTE PAFNPQSSLDQGGGPAAPAVD DDTRRGHGGVCGDGGAGEA
23424	53792	A	23559	510	690	LRSPQVRGVAAPPFLGSPVPFGG FRVQGGMAGQPSAPPALQTDD PYSKAHSVTPKSTPRVT
23425	53793	A	23560	25	480	
23426	53794	A	23561	84	292	VRAVQSLHFHFPWRR/ISCPSES TRSIHVDRLPRRNSASLSLAFP VSAGALINGEAWVRMGQVPIPI KAP

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23427	53795	A	23562	1138	1924	CRSSATWTPWTTTGCRGDLTK TYSLEAYDNWFNCLSMVLVATE VCRLLLSPGSAMLRSPATFQVV KKKHRTRMLEFFIDVARECFNI GNFNSMMAIISGMNLSVARLK KTWSKVKTAKFDVLEHHMDPS SNFCNYRTALQGATQRSQMAN SSREKIVIPVFNLFVKDIYFLPQ NP\SNHLPNGHINFKKFWEISRQ IHEFMTWTQVECPFEKDKKIP\ YLLTAPHPTARKLSSSPSESEG PENHMEKDSWKTLRRTLLNRA
23428	53796	A	23563	3	260	
23429	53797	A	23564	1	1386	
23430	53798	A	23565	137	611	MKVNLGDSQNLACVFCRKHD DCPNKYGEKKTKEKWNLTVH YYCLLMSSGIWQRGKEEEGVY GFLIEDIRKEVNRASKLKCCVC KKNAGFIGCVAPRCKRSYHFP CGLQRECIFQFTGNFASFCWDH RPVQIITSNNYRESLPWHLLG NLFEPISY
23431	53799	A	23566	181	486	DPQGEAKGAAPAEGGGGPV*W NGLQGPAGVPGRDGSPGANGI PGTPGIPGRDGFKEKGECLRE SFEESWTPNYKQCSWSSLNYGI DLGKIAECTFTKMRS
23432	53800	A	23567	600	888	QYNGMCSPGPAGVPGR\EGSPG ANGIPGTPGIPGRDGFKEKGE CLRESFEESWTPNYKQCSWSSL NYGIDLGKIAGRNCWHILAPVP NIVSLYFGS
23433	53801	A	23568	91	1170	ISLHRRPGPTCSMESPASSQPAS MPQSKGKSKRKKDLRISCMSP PAPNPTPPRNLDSTFITIGDRN FEVEADDLVTISELGRGAYGVV EKVRHAQSGTIMAVKRIRATV NSQEQKRLMLDLDINMRTVDC FYTVTFYGALFREGDVWICME LMDTSLDKFYRKVLDKNMTIP EDILGEIAVSIVRALEHLHSLKLS VIHRDVKPSNVLINKEGHVKM CDFGISGYLVDSVAKTINAGCK VKHGHESLN\PD\NRKGCDVKS HVWSLGITMIEMAFLRFPYESW GTPFQQLKQVVEHPSQLPAGR FSPEFVDFTAQCLRKNPAERMS YLELMEHPFFTLHKTKETDIA\A FVKEILGDS
23434	53802	B	23569	111	193	

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23435	53803	A	23570	312	696	RP*SAHPEPGDCSPPHPPRCGG VAQTAQVPDAPAPV*AG\QHSR SYMEDHLKNKNRLEKEWEALC AYQAEPNSSFVAQREENVPKN RSLAVLTSQPTRNQCLPFLQHG PGDICTPVSISSIVLCHRV
23436	53804	A	23571	1	2974	QAAGMGPPPLLLLLLLLLPPR VLPAAAPSSVPRGRQLPGR LGCL LEEGLCGASEACVNDGVFGRC QKVPAMDFYRYEVS PVALQRL RVALQKLSGTGETWQDDYTQY VMDQELADLPKTYLRRPEASSP ARPSKHSVGSERRYSREGGAAL ANALRRHLFPLEALSQAPASDV LARTHATAQDRPPAEGDDRFSES ILTYVAHTSALTYPGPRTQLH EDLLPRTLGGQLQPDELSPKVDS GVDRHHLMAALSA YAA
23437	53805	A	23572	1	3202	ASRRLPRGHGLSAAGQAAGMG PPLLLLLLLLLLLLLPPRVLPAAAPSS VPRGRQLPGR LGCLLEEGLCGA SEACVNDGVFGRCQKVPAMDF YRYEVS PVALQRLRVALQKLS GTGFTWQDDYTQYVMDQELA DLPKTYLRRPEASSPARPSKHS VGSERRYSREGGAALANALRR HLFPLEALSQAPASDVLARTH AQDRPPAEGDDRFSESILTYVA HTSALTYPGSRTQLREDLLPR TLGQLQPDELSPKVDSG

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23438	53806	A	23573	1	1459	MPLTSQDQKTA A W V P T N R D STVPSDPWDCKRRPWLLVLRP LAPGTKAPPGGQNGRGRQKGS PCSRRLLEPAGPLGPASVRCIR TTTPQLLIITTSRFPSSLEAAVGY GSNTCIFANACQMVFIMITWPY LQCIPYSVLLKDLEMRNLRELE DLIIEAVYTDIIQGKLDQRNQLL EVDFCIGRDIRKKDINNIVKTLH EWCDGCEAALLGIEQQVLRAN QYKENHNR/TLQQQVEAEDVYI LPQSGNDCRGLRFVSSLIGGVR CVHLKHKGDV V WEAIEEGEA LPGKYRLKGRSVWAAAVRA VCMDQVTNIKKTLKATASSSA QEMEQQLAERECPPHAEQRQP TKKMSKVKGLVSSSPLGPAGA AGTHQAWVRWGGDTKGPFPL STCSEFQTCPSPHQRLPTLLVLF QKNCYSPSPTPSPSCSLQTQGL HQCHPKTGSDTAQLPSRRFLSL CKGLVSLPVFLLLPRHFVRLVIK
23439	53807	A	23574	2	396	
23440	53808	A	23575	1	1014	
23441	53809	A	23576	110	212	
23442	53810	A	23577	1	747	
23443	53811	A	23578	323	495	GRAGKWHTQPE*SLRKAM*MF QILMMKMIVALARATSGTEAV AGRSWASGLRRSGRV
23444	53812	A	23579	26	229	
23445	53813	A	23580	1	574	
23446	53814	A	23581	889	1189	
23447	53815	A	23582	170	625	GAAVALVRPNGGTAASHVVCR EMRPLRPLQSRRCRRRTGISN MRALENDFFNSPPRKT VRFGGT VTEVLLKYKKGETNDFELLKN QLLDPDIKDD\QIINW\LEFRSS VMYLT\K\DFE\QLISIILRLP\WL NRSQ\TVVEEYLAFLGNLVSA
23448	53816	A	23583	166	455	RWKPSGTWPRNPMERPGH*ES VPKPGD*AKKSGGET\RGKKEG NEHRETF SQIPDCHLNKKSQTG VKPCKCSVCGKVFLRHSFLDRH MRAHAGHKRS
23449	53817	A	23584	3	3706	

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23450	53818	A	23585	1	1970	MVTDRKAAAGTHGEARPCWG SGSRVHTYRGAGERAMRVHRP MPREDSERVREADGGKHEQRS FGDLHPTAAPAPAASGCGTQPG RVKQPGEWQHREAPQQRQPPV RPHGSHQLVTVRYERRPGGKE RARLRPGLGCPSGRTPQGRAPQ GTALPTAAAAAIFPSAALTSGQ RNASLPKFYFRGGTWGTSQSEA LCGKLSNQFLGEPLVPRIRLILS CGTCSGCSSPRKDPGHPEAGNG PSRDFFLPSEERDSVAFEDVA VNFTQEEWALLSPSQKNLYRD VTLETFRNLASVGIQWKDQDIE NLYQNLGIKLRSLVERLCGRKE GNEHRETFSQIPDCHLNKKSQT GVKPKCSCVCGKVFLRHSFLDR HMRAHAGHKRSECGGEWRETP RKQKQHGKASISPSSGARRTVT PTSMRPYE\TKVCGKA\FIS\PIYF QIHQRTPTTEKRSYKCREIVRAFT VSSFFRKHGKMHTGEKRYECK YCGKPIDYPSLFQIHVRTHTGE KPYKCKQFGKAFISAGYLRTHE IRSHALEKSHQCQECGKKLSICS SSLHRHERTHSGGKLYECQKC AKVFRCPSTLQAHARAHTGERP YECNKCGKTFNYPSCFRRHKKT HSGEKPYECTRCGKAFGWCSSL RRHEMTHTGEKPFDCQWVKS
23451	53819	A	23586	86	390	LGSGDLPWEINPLSSCSLLREKD PPTTSGPQT\TSPRNISPISNELA THAGNLATGPRNARSPGFLLSR VPSVWDPTENRTVQLTWQPLP ELLELWPKVL
23452	53820	A	23587	1	502	MLLTQSLFGGLFTRTHMKFGA VTQIRGPPLGDKSPVLLLFALER QRRHVLSMDPKLRCWSRTGKA AFPWCLIIAEMPDYSPTFQRCQ TTQGRLPWSFTLSSKSRFSGEG ARACYKCQKSDHQAKECPQPG IPPKPCPICAGPTGNRTVQLTW QPLPELELWPKAL
23453	53821	B	23588	1	663	
23454	53822	A	23589	233	496	
23455	53823	A	23590	2	378	ERQRRHVLSMDPKLRCWSRTG KAAFPWCLIIAEMPDYSPTFQR CQTTQGRLPWSFTLSSKSRFSG EGARACYKCQKSDHQAKECPQ PGIPPKPCPICAGPTGNRTVQLT WQPLPELELWPKAL

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23456	53824	A	23591	3	452	VRPRRDACLGPSPLAASPAFLG KGQVPQPLISLCPDPLFPHPNLIS LRPNPLCPHPDLVSLCPDPFPAF LEAHKNFQTPEPQQPGIPPEPPP PGACYKC/HEI*PPGQGMCAAQ DSS*AMS/LSVRDPTGNQTVQL TWQPLPEPELELWPKAL
23457	53825	A	23592	1352	1540	
23458	53826	A	23593	177	383	EAMEPWKGVPLGRVNTEQIAP FSEAEGPREIH*GSRKVRKAAQ GLNEGPRELFWQPLPEPELELWPKAL
23459	53827	A	23594	1478	1744	
23460	53828	A	23595	23	178	SCLEVCDEQGPEKTRQRALRG VSSVTEDTLNICRLCWQPLPEPELELWPKAL
23461	53829	A	23596	1	282	
23462	53830	A	23597	34	241	SGDLPWEINPPSSCSLLREKDPP MTSGPQT\TSPRNISPISNPDTG NRTVQLTWQPLPEPELELWPKAL
23463	53831	A	23598	121	286	AASFYSSPTSLTIPQPLSPFNLG VTLQSLPSLNFNSFLFWQPLPEPELELWPKAL
23464	53832	A	23599	144	488	GYEIWCRDSDQGTFPWEINPPS SCSLLREKDPPTTSGPQT\TRPR NISPINLVSGFLLSPPSLTIPQ PLSPFNLGATLQSLPSLNFNSFH FLVETKETRFIRGAKIPAVTD
23465	53833	A	23600	471	677	
23466	53834	B	23601	67	555	
23467	53835	A	23602	1	1440	
23468	53836	A	23603	860	1209	IPGNCRDSSGVGIKERETNAGS QMHM/IKNSSVHGYPRLCVEDE DAYKKQFSQYIKNSVTPDMME EMYKKAHAAPENPVYEKKPK KEVKKRWNRSKMSLAQKKD WVAQKKASFLRA

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23469	53837	A	23604	1	966	MGFVKVVKNKAYFKRYQVKF RRRREGKTDYYARKRLVIQDK NKYNTPKYRMIVRVNTRDIIICQ IANARIIEG\DMIVCAPYAHELP KIWV*RVGLTNYAAA\YCTGLL AGPAGFFHRFGMDQIYE\GQV\IE LTGDEYNVESIDGQPGCLHPAY WDARPLPTYPLAIKVFGCP*R GA\VDGGLVLFPHSTKTIPPGY DS\ESK\EFNAES/IHRKPHPWAQ NVARLHAPTEMEDEDA/YTK KQFSQYIKNSVTPDMM EEMV/Y RKAHAAIRENPVYEKKPKKEV\ KRKRWNRPKMSLAQKKDRVA PKKASFLQSSRSGLLES LTPAIFP
23470	53838	A	23605	1	644	ANSSPVNPVVFFDV SIGGQEVG RMKIELFADVVPKTAENFRQFC TGEF/RVSFRCV*LLCLLRGVL GLQ*GYR*TTCWP*MIAGDSDR RKDGVPIGYKGSTFHRVIKDF MIQGGDFVNGDGTGVASIYRG PFADENFKLRHSAPGLLSMANS GPSTNGCQFFITCSKCDWLDGK HVVFGKIIDGLLVMRKIENVPT GPNNKPKLPVVISQCGEM
23471	53839	A	23606	638	1391	CPAYKGAHGIQCVYCTLPPLL QTTRRVRRNPTLPTSASGSEPW RLANSSPVNPVVFFDV SIGGQE VGRMKIELFADVVPNTAENFR QFCTGEFRKDGVP IGYKGSTFH RVIKDFMIQGGDFVNGDGTGV ASIYRGPFADENFKLRHSAPGL LSMLTWP GKLTAGIFGFHQANS GPSTNGCQFFITCSKCDWLDGK HVVFGKIIDGLLVMRKIE\GMPC IFQPTWTHFLPVITTAC SALGSM LAAERGTKN
23472	53840	A	23607	2	591	ARAEFGTSRVGAMAVANSSPV NPVVFFDV SIGGQEVGRMKIEL FADVVPKTAENFRQFCTGEFRK DGVPIGYKGSTFHRVIKGF\MI\ QGGDFV\NGDGTGSRPVFTRGP ILQMKIFKLARHSAPGLLSMAN SGPSTNGCQFFITCSKCDW/V WDGKHVVFGKIIDGLLVMRKI E\NVPTGPNNKPKLPVVISQCG
23473	53841	A	23608	6	424	

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23474	53842	A	23609	3	470	DAWVSGRLTELPSSCFFPPIFRQ LLPVMPEPSKSAPAPKKGSKKA VTKAQKKDGGKRKRSRKESYS VYVYKVLKQVHPDTGISSKAM GIMNSFVNDIFEIRIAGEASRLA HYNKRSTITSREIQTAVRLLLP G\ELCKHAVA\SEGNTA\VTKYTSS
23475	53843	A	23610	93	421	
23476	53844	A	23611	2	1173	DHAAPRRRSRASVATVTRAGR CPTMSVRVARVAWVRGLGASY RRGASSFPVPPGAQGVAELLR DATGAEEEEAPWAATERRMPGQ CSVLLFPGQGSQVVGMRGGLL NYPRVRELYAAARRVLGYDLL ELSLHGPQETLDRTSQVQSPGT GIPRRVRAHVLHLSPQVIENC/V VS/AGLAFSPSFCALIFPNALL/F WPGLYAVKIRAEAMQEASEAV PSGMLSVLGQPQSKFNFACLEA REHCKSLGPVNGQICKGGFLGH CSAETSFLPQALRFLQKNSSKF HFRTRMLPVS GAFHTRLMEP AVEPLTQALKAVDIKKPLVSVY SNVHAHRYRHPGHIHKLLAQQ LVSPVKWEQTMHAIYERKKGR GFPQTFEVGPGRQLGAILKSCN
23477	53845	A	23612	187	425	
23478	53846	A	23613	1	1258	MKAYLLLGAAPLPWFPGQAV FRPCPPAGLWRTAQLVELEHG PVPREDLIPCSRPFISFLGPERV DGLAFPRIQALGIAAARGMEPK GAPGKSDSGNSRSAGGRVLGC QGAALVECSAGRGGPVRLAV GCVLLRAPERGWRRGEGAARG IPAGRSSSESLGALSPQGVRS DI GINGNIWHPGVQTD FSSLKRSQ GLYAVKIRAEAMQEASEAVPS GMLSVLGQPQSKFNFACLEARE HCKSLGIENPVCEVSNYLPDC RVISGHQEALRFLQKNSSKFHF RRTRMLPVS GAFHTRLMEPAV EPLTQALKAVDIKKPLVSVYSN VHAHRIQGIPGHIHKLLAAQQLV SPVKWEQTMHAIYERKKGRGF PQTFEVGPGRQLGAILKSCNMQ AWKSYSADVLTQLEHVDLDP

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23479	53847	A	23614	2	1050	GRCPTMSVRVARVAWVRGLG ASYRRGASSFPVPPPGAQGVAE LLRDATGAEEEAPWAATERRM PGQCSVLLFPGQGSQVVGMGR GLLNYPVRRELYAAARRVLGY DLELSLHGPQETLDRTVHCQP AIFVASLAAVEKLHHLQPSVIE NCVAAAGFSVGEFAALVFAGA MEFAEG\LRFLQKNSSKFHFR TRMLPVSAGFHTRLMEPAVEP LERKLLKAVDIKKPLVSVYSQR PTRIRLQAFPGNIQQSCLAQQLG LPK*KWEQTMHAIYERKKG/R RGFPQTFEVGP\GRQLG\AILKS CNMQAWKSYS\AVDVLQTLEH \DLDPQEPPKMTGRGLKCNDP LCPPEERL
23480	53848	A	23615	600	905	QAPASGSPWLSGGPQQVEDAG AGYGFAPGQPPPPRTQPRSAC SRRAAG/TPVPRAPPAPSAG\PK ARAPRSLGCGSLGRFSTGVRPD KCIFPPETENAAGCF
23481	53849	A	23616	390	722	QAPASGSPWLSGGPQQVEDAG AGYGFAPGQPPPPRTQPRSAC SRRAAG/TPVPRAPPAPSAG\PR AAPRSLGCGSLGRFSTGVRPD KCIFPPETEMSYLLFRNTVSRCR C
23482	53850	A	23617	1	673	MGQVKGHKLCLDFTLLSPDGG AAEGRCLELGWQAKEVEETIE GMLLRLEEFCSLADLIRSDTSQI LEENIPVLKAKLTKMRGIYAK VDRIKAFVKMVGHHVAFLEAN VLQAERDHGAFPPQALRRWLGS AGLPSFRNDPTAPLRQVFÉASP DPRLARTVTIQTQQPVRVSGPL SGQRKEKSLQKGAQVFQTNVP ETLLEGAAISPAPACGGPLTSGD GFRHVRK
23483	53851	A	23618	1	651	
23484	53852	A	23619	195	497	DQFLENTKKCDGLNQLSFDPA NNNKPLEFGRARGPLVTEGLIE NGGESSKKRRRTNSSADNSRT LNVDSTAMTLPMSDPTAWATA MNNFGMAPVRIVGH

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23485	53853	A	23620	241	1823	NDDRAKFTVEDHTMQRDFRW LWVYEIGYAADNSRTLNV DST AMTLPMSDPTAWATAMNNLG MAPLGIAGQPILPDFDPALGMM TGIPPITPMMPGGLGIVPPPIPPDM PVVKEIIHCKSCTLFPPNPNLPPP ATRERPPGCKTVFVGGLPENGT EQIIVEVFEQCGEIIAIRKSKKNF CHIRFAEYMDVKALYLSGNR ELKKFLNKEDNYFRKINLTALY KTVLEERCEKRRGGYRIRLGSS TDKKDTGRLHVDFAQARDDLY EWECKQRMLAREERHRRRMEE ERLRPPSPPPVVHYSDECSIVA EKLKDDSKFSEAVQTLTWIER GEVNRRSANNFYSMIQSANS VRRLVNEKAAHEKDMEEAKEK FKQALSGILIQFEQIVAVYHSAS KQKAWDHFTKAQRKNISVWC KQAEIIRNIHNDELMGIRREEE MEMSDDEIEEMTETKETESEL KKLEGIVDGSVEVSAEALRKL NEYERQVKEEQKVG YRIWGTI HNKGEGKKEEFAEELEKSSSER
23486	53854	A	23621	996	1512	RPVHLASPAKEQQGTRKGRRA PARLPVPTTGGRLEKG PESQAP PSFRQATGRFSRSGSSGGTPSK NSRDCSHTPQLPTPRGNPYV FPS PGHPEPSRPVEMPAPGÆPRTRQ LCRERTRKACPPKPRPPLGLPG DPTGPVTHHAPPVSPTGASGQE RRAEPGAVSYAHASATK
23487	53855	A	23622	293	1140	PRGILHQDKNLVVINKPYGLPV HGWPWG\QLCITDVLPIAKML HGHKAEPHLHLCHRLDKETTGV MVLAWDKDMAHQVQELFRTR QVVKKYWAITVHVPMP SAGVV DIPIVEKEAQQQQHHKMTLSP SYRMDDGKMVKVRRSRNAQV AVTQYQVLSSTLSSALVELQPIT GIKHQLRVHLSFGLDCPILGDH KYSOWNRLAPQKLSVGT LKKL GLEQSKARYIPLHLHARQLILPA LGS GKEELNLVCKLPRFFVHSL HRLRLEMPNEDQNENNEAKCL

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23488	53856	A	23623	1	1328	MAVDLGSHTPGSSGVTAATFR GRRLVNTREESVVLGAGGEVL SGVPGTWDALGPGASFGIKGM FPKGTVMSTSPMCEGPVPRRK PCASSVGQQNSRSRKKAGRKTP TLAGRHPVKIKKEAIQQKPLP ASSFSPALTRSGAIFGPCALTS APVLEYPLQKVVENEAFFKVFN NRDEESKRQKQAEFRMLTSAIR GPAGPRGHSSTRKPPSNPPPPGA CFKCGNEGHRSRQCPNPGTTSQ EAELIALTRALTAAAGQQINIYS NSHYVFHIVHSHSSIWKERGILT AKNTPAINGSLINKLLKAARLP QKVAIHCRGHQTPDNPILAGN VLADQVAKQVALQPVQGGFLS LSLFSPLYSEEKEDFRAQNLQ KQGPW/LQSQGARLLVPAACAS KVAEAGRKPAGRHVPLKIQKE AIWSSPFSVPMATRAAASTSTPT
23489	53857	A	23624	475	622	IHSKVLFSASSSSC*NTNNSWFR ASIKKNPEKQKNMQSAIPQHG LWKI
23490	53858	A	23625	17	992	GRGEVLRGRGRGQLDAVLSRE HCGGSRQSEQPWSRRSSSSSSR RRLRSAAEPMALSMPLNGLK EEDKEPLIELFVKAGSDGESIGN CPFSQGLFMILWLKGVVFSVT TVALKRKPADCQNLVPGTPPP LILFSSEVKTDVNKIEEFSEEVL CPPKYLKLSPK\HPRSNTAGMDI FA\KFSAYIKNSRPEANEALER GLLKTLOKLDEY\NS\PLPDEI DENSMEIKFSTRKFLDGNEMT LADCNLLPKLHIVKVVAKKYR NFDIPKEMTGIWRYLTNAYS RD EFTNTCPSDKEVEIAYS DVAKR LHQVKSRLLEKVSFMS SP

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23491	53859	A	23626	1	1128	MALASGEGLPVALSHGRRGNG QERVPLYKLRTCA YRVA WRC NRLARAKVKRTSYRSGYGNGF EPGVEPDCVVLLALGVENDLV RISSKAEKYSLYEFSPFLRVSR CEECECRKEPWFNPGQKPSVLIT SGQILGQEEQKTLFPGLLSLVF QFNVNSDLRCLSLAENLEISAL LSLSCSSVIRLILINLEVTISPPITI LKHAPPLTSLEASSSSSGIEKKIH NNFRQGPFPSSA*TRSTFLMNH* SFDSYVVVSNI VPRNLNLYPQVL DVLQSLHKIHLASNAKWTIQG PAKPDLGLELGLHRYPDWEKE ERKKKRKRSVSPEKSITTHNKP TSSGIFY/RPRRCGCDLGRPPAP GPHPSSPPHSPQPSPRCPPV
23492	53860	A	23627	3	453	SLGKDIRPRSARAACKGVGLWS GCFGKMAGSGVRQVTSTASTF VKPIFSRDMNEAKRRVRELYRA WYREVPNTGER*RLVRPAVLK HSYVANRSF
23493	53861	A	23628	3	695	PYASRRKFRVDPRVRAWSCGF DKMAGSGVRQATS\TASTFVKA HFSVGDME\AKREGARVLTAP WYR\IEVPNTVRVHQFQLD\TV KMGRDKVREMFMKNAHV\TDP RVVDL\LVKGV\IELEETIKVL KQ\RTHVMRFFH\ETEAPRPKDF LSKF\YV\GHDPLKSFSGKDAR WILFLGAQIKLTIQWSLCDRIPL MNQFSAASFCLSKWGPWVLHI TCSFPFSWKCGVCKLD
23494	53862	A	23629	82	441	SLPINPVPTACTLQPA GLLRPPG SDVRTPMLPPSAPSQPSYPTSRP PLWPTWPAGPVFRRSQPLAQPN LPRSYHQQAPGGQTPVALGLE\ CPKATNQPFGLTQRDPKSPAKV PPFEEFSL
23495	53863	A	23630	3	504	DRSSSSTMSTGGDFGNPLRKFK LVFLGEQSVGKTS LITRFMYDS FDNTYQATIGIDFLSKTMYLED R/TNVNSFQQTTKWIDDVTER GSDVIIMLVGNKTDLADKRQVS IEEGERKAKELNVMFIETS/AKA GYNVKQLFRRVAAALPGIMPS VLFQIIPSQALTRYLC

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23496	53864	A	23631	416	1239	GGGRSSSSTMSTGGDFGNPLRK FKLVFLGEQSS\GKTSLITRFMY DSFDNTYQATIGIDFLSKTMYL EDRTIRLQLWDTAGQERFRSLIP SY\NRDSAAA VVVYDITNVNSFQ ANYKSGIDDVRTERG\SDVINIM LVGNKTDLADKRQVSIEEGERK AK\ELNVILMETSAG\YNVK QLLSTCKQPALPGMESTQDRSR EDMIDIKLEKPQE\QPVSEGGFL LTNLPCHLQPPFFQKLTGFWPPY SFIDCSVNIGLMPFPFSNNVLRFI IAACPAWR
23497	53865	A	23632	1	493	PKPATAPPPPSL/RARFLCPQRRP ERAR/PRARGASPRPEKTAGAR KRRRGSCERPHPGG/RPPAPG*I SSRPTLGFFWILNFFFLKKLGR KDVPWQDSTKEHLSVCRGLRG TWSVPSASDPLHPAWRRTCFRV PPTTGAREWWLHLPALQRP DSRQCHRPVC
23498	53866	A	23633	1	560	MESIWAGLWTAQDTTVLADDF EFILWTLKRRPERAR/PRARGAS PRPEKTAGARKRRRGSCERPH GGLRRLPGARDQRAPPRSDAG RSPGRLRRLPALLCAGPLSPGRE PRRWEPRAGVARPAGQQWGFF WPGNQQGASICSLILWFLLECG SRSTGGPCSGTELGHFSRERPTV LLSRLGTVKRP
23499	53867	A	23634	32	327	LTQRLFGGLFTRTHMKFGALTR IG\DLPW\INPLSS\CSLLPEKDP PMTSGPQTDQKEHLTNFKSAA RRSSRTSSHRNLLHVLEIWQLD QGMPAARDF
23500	53868	A	23635	2	424	LTPFSDSAHLHPGEINSPVAHTK PVGGLFTRMRVTFGAKTQDRS TP\QETSPLSSPSPVTSQPQTNQ PKEHLTNFKLGKQSFHSSHASL ATLQSSSLATLQSPCPSNSNSFS SLVETRRRPGAVARLQSQLSGR LRGGRJA
23501	53869	A	23636	31	246	TALLLTQSLFGGLFTRTHMKFG AVTRIG\DLPWGINPLSSCSLLR EKDPLTISGPQTHQKEHLTNF KSGPH

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23502	53870	A	23637	125	464	TAVFLTQSLFGGLFTRTRMKFG TMTRI/RGDLPEINPLSSCSLL HEKDPPTTSGPQTNPQKHLTN FKSRKVERTKGLLKTHTLTKLSH QLKKAWTILLPLSLLRIQACPR NAT
23503	53871	A	23638	1064	1304	TAMLLTQSLFGGLFTQMCMKF GAVTRIGDLPWEINPLSSCSLL HEKDPPTTSGPQTDPRKEHLINF KSGACYTCRKSGH
23504	53872	A	23639	539	747	TAMLLTQSLFGGLLTRTRMKF GALTRIGDLPWEINPLSSCSLL HEKDPHTPSRKIHIRPQGNHESQ KGL
23505	53873	A	23640	709	950	TALLTQSLFGGLFTRTHMKFG AVTQIGDLPWENQSPVLLCSLL REKDPPTTSGPQTDQPKHLTN FKSGKWSFHSSPAF
23506	53874	A	23641	1	1257	MGKKVLGIASQLLGAVRCEPD GRRVLPEDWPECLSLVTHGTW FTRQGDKNIQMADNSFSDGVPS DFVEAAKNASKTEKLTQVMQ NPGVLAALQERLDNAPHTPSSY IETLPKAVKRRINALKQIQVRC AHIEAKFYEEVHDLERKYAAL YQPLFDERREFITGDVEPTSDM ESEWHRENEEEKLAGDRKNK VVITEKAAATAEEPNGKIPEF WFTIFRNVDMLSELVQEYDEPI LKYLQDIKFHFQPNDCFANSVL TKTCKMKSEPDKADPFSFAGPE IMDCDGTIDWKKGKNVTVK IKKKQKRKPGTVRTITKQVSN ESFFNFFNPLKASGDGESLDKD SEF/ASDFEIGHFFRER\PQAVLY FAGEALKDDDNFDEGEEEEDEL EGDEEGEDEDEVEINPNKEPSQ
23507	53875	A	23642	132	1277	
23508	53876	A	23643	1	515	RVRHRSVSVGSTHASAHAYGE GSLRIIPVTRSPLVTMNHIVQTF SPVNSGQPPNYEMLKEEQEVA MLGAPHNPAPPTSTVIHNRSET SV\PDHVV\WSLFNT\LFMNTCC LGFI AFAYS\VKSRDRKMVGDV TGAQAYASTAKCLNIWALILGI FMTNLLIIPVLVVQAQR

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23509	53877	A	23644	243	643	NHTVQTFFSPVNSGQPPQRMRCI KEEHEVAVAGG\PHNPAPPTS TVIHIRSETSV\DHVVWSRVQ TPSSMNPC\CLGFIAIRLTP*SLR DRKMVGDTVGAQA\YASTAK CLN\IWAHDSGASVMTILLIVIPS
23510	53878	A	23645	3	1498	RCNFLRSSRIRVHPTPAASTMPP KFDPNKIVVYLARCTGGGEVGA TSALAPKIGPLGLSPKKVGGDDIA KAMGDWKGLRITVKLTIQNRQ AQIEVVPSASAMIIKALKEPPRD RKKQKNIKHSGNITFDENGNIC STDMR/HRSLSRELSGTTKEILG TAQSVGCNVDGRHPHDIIDDIN SENDKQPRKSKMRTSFSPQIPG HEHFHYLLLLQHVCQLALTL RARKEGSSTHHQKLSTYYFKEG NSKEPKKIQRNTELKKEGG GGSGKAPGSEIKLESPACSGASL GEMTAWTMGARGLDKRGSF KGPLPNTCGHFWEVWEQKSR GVVMLNRVMEKGSVVEFVTEL FFYVALPKMFVHYIVILLASKL EEVTFNFPFPPDLCTPFLQNYLR VAFQEVNSGCTGKTLLVRPYIT TEDVCQICVEKFKVGDPEEYSL FLFVDETWQQLAEDTYPQKIK ELHSRPQPHIFHFVYKRIKNDPY GIIFQNGEEDLTTS
23511	53879	A	23646	361	918	GCTGSRGTVPLSALGPQRIGPP GSCLQIKSWNDICQRQPGDW KGP*GFTVKLTHSRTGQAPDCT RVP/VLPSCP*FIQSPSREPPKRPE KKPEKTFKHQLGIFTFLNEICST LLRQMR\HRSLSPEKLSWNPT* RDSWGIAQFSGAVNVDG\RHP HD\NDIQQWVLWKCPQLST KENIFNKGII
23512	53880	A	23647	1	642	

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23513	53881	A	23648	894	2438	VETKRIQPQPPDEGDHSDKED EQPQVVVLKKGDLSEVEVMKI KAEIKAAKADEEPTPADGRIIY RKPVKHPSDEKYSGLTASSKK KKPNEDEVYQDSVKKNSQKLII NSSLLSFDNEDENDTEKSMENL TGKIRKLQLRIVDPTFLPKLSNK GKDPVAVARLETGKGNKGAFR VLRDISRWATLCTSPQHSSSEA KNIIPYQATQFQNEVHKWYKK KGGKISKRKALFFLTQDIQKK LQKLALGPNTPDILKIASLVF YNQDQEEKERAQQNERQKEKL YWLSYKSASPFQVALRILSQET THKDELPTDLPNNPEVQAPGIP GNTIMAMPVAIQKDPSSYPCR IHKVPEIASWIHRTQVKLWKSPE TSELEPTPSVIEYTREALEDLKF LFKQKDNSSAKTPGRAYAASPR DWTSIEAELHIFYQWDPNLKG MFKPASLLAKVKQDFPDHKEK PIFRAIFSNIITLMGIAPICVTGKTI KKRTRQHHTTPKSNLREQASQ GSLNWEGN
23514	53882	A	23649	200	1727	RTATSLDSVLYKSDYMTWKYR VSFFYILSCRLLKK/QCTDNEHV YMELSKKLYKYCPKEWKKEAS KVRQYEVTVVVS KR GKDYLK HIPNMHKDQFALTASEAHLKYI KEAVRLDDVAVHYRLYKDK REIEASLTGLTMRGIQIFQNL EEKQLLYDFPWTNVGKLVFVG KKFEILPDGLPSARKLIYYTGCP MRSRHLLQLLSNSHRLYMNQ PVL RHIRKLEENEKKQYRESYI SDNLDLMDQLEKRSRASGSS AGSMKHKRLSRHSTASHSSSHT SGIEADTKPRDTGPEDSYSSSAI HRKLKTCSSMTSHGSSHTSGVE SGGKDRLEEDLQDDEIEMLV DPRDLEQMNEESLEVSPDMCIY ITEDMLMSRKLNGHSGLIVKEI GSSTSSSETVVKLRGQSTD SLPQTICRKPKTSTDRHSLSLDDIRL YQKDFLRJAGLCQDTAQS YTFGCGHELDEEGLYCNSCLAQ QCINIQDAFPVKRTSKYFSLDL THDE
23515	53883	A	23650	182	423	RLSIMASSLNEDPEGSRTYVKG DLFACPKTDSL AHCISED CRM GAGIAVLFKKKFGGVQELLNQ HYKEKGLRTS QLYG

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23516	53884	A	23651	1	249	
23517	53885	A	23652	435	494	
23518	53886	A	23653	163	578	RVTWLKKHLNSGNSDSVCMAS SLNEDPEGSRTYVKGSLFEGP KTDFLAPCISEDCRMAGITVL FKKKFGGVQELLNQKKSLGE VAVLKRRWGRLYIFTWITKRK RAFAQSPLYENLTEEFRGQLKS HLSEEWSH
23519	53887	A	23654	1	2238	
23520	53888	A	23655	26	1941	RDAGTKWQRLGHLSCCHCRKQA AREIINMHFQAFWLCLGLLFISI NAEFMDDDVETEDFEENSEEID VNESELSSEIYKTPQPIGEVYFA ETFDSGRLAGWVLSKAKIKVD MDEEISYDGRWEIEELKENQV PGDRGLVLKSRAKHHAISAVLA KPFIFADKPLIVQYEVNFQDGID CGGAYIKLLADTDDLILENFYD KTSYIIMFGPKCGEDYKLHFIF RHKHPKTGVFEKHAHAKPPDVD LKKFFTDRKTHLYTLVMNPDD TFEVLVDQTVVNKGSLLLEDVV PPIKPPKEIEDPNDKKPEEWDER AKIPDPSAVKPEDWDESEPAQI EDSSVVKPAGWLDDEPKFIPDP NAEKPDWNEDTDGEWEAIPQ ILNPACRICCGEWKPPMIDNPK YKGVWIPPLVDNPNYQGIWSPR KIPNPDYFEDDHPIILLTSFSALG LELWSMTSDIYFDNFIICSEKEV ADHWAADGWRWKIMIANANK PGVLKQLMAAAEGHPWLWLIY LVTAGVPIALITSFCWPTKVKD RHSLEYIIPDICIPQTKGVLEQE EKVEKAALEKPMDLSEEEKQW DGEMLEKEESEPEEKSEEEIEII EGQESNQSNSGSEDEMKEA DESTGSGDGPISLRKRRVRKD
23521	53889	A	23656	297	398	
23522	53890	A	23657	286	430	TAGARCSSRTSSPGSCFNCQKS GHWARINARSPGFLLSRVPSVN WIHI
23523	53891	A	23658	405	524	ARMSVACLPLGLFFICLRGDFKQ NLTA YCWKCYQL *RSLGTHS
23524	53892	A	23659	1	657	
23525	53893	A	23660	22	334	ALKHFCLCSLIFSVTMMKFLAV LVLLGVSIPLVSAQNPTTAAPA DTVSSLLVLLMMKPLDAETTA AATTATTAAPTATTAATASTTAR KDIPVLPKWVGDLPNR

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23526	53894	A	23661	1	270	
23527	53895	A	23662	1	284	
23528	53896	A	23663	111	281	
23529	53897	A	23664	229	363	
23530	53898	A	23665	250	586	PVRHGAFQDKSSDKKVQTKG KRGAKGKQA\EVAN\QETKEDL PAENGETKTEESP\ASDEAGEKE CQCLINNHIPCLISGPCLPSCTIQ RNIFINYFVNASFLVALETFLKK
23531	53899	A	23666	3	478	APAVGLSSSGGGRSGSGKAARF REGCRRAAARMQQA\PGTRLPR RHPARAFPAATMPKRKVSSAE GAAKEPKRRSARLST\KLPKAK V\EAQPKKAAAKDKSSDKKV\Q TKGKRGAKGKQA\EVANQETK\ EDLP\AENGETERLEEESLLIEA GEKEPKS
23532	53900	A	23667	1	252	
23533	53901	A	23668	328	414	
23534	53902	A	23669	1	3156	
23535	53903	A	23670	1887	2036	
23536	53904	A	23671	3	212	
23537	53905	A	23672	22	539	YEGIVMKPLIIVNPADCIGCART CE\ACVVAHPSEQELNADVFL PRLKVQPIWTA\VSAAR*CCPFSS ENAP\CVGA\CPVGA\LTMGQV VQTNSARCIGCQSCVSACPFGM ITIQLSPGDTRQQIVKCDLCEQR EEGPACVESCPTQALQLLTERK LRRVRQQRIVVSGENPL
23538	53906	A	23673	135	302	PIHMKTRQPRDQFSADCVFLQS TCPVPC*RNRL*TPGGYWRTRR DYLRCDRSVHV
23539	53907	A	23674	175	794	LSTHSQPIADAADPPPHLHTGEL LCSAHQADFAVSAEPARPANN NAATTAPVHAVAITPPAYPDCF RTLPKSLSHQDSTQRLYGIALR LLRISTSGPPPSRLKVQRLDSISA PV\MCHQCENAPCVGACP/VGA LTMGQVVQQTNSARC/IGCQSC VSACPFGMITI/QSLPGDTRQQI VKCDLCGALRDCVAVLRQRRN SRVVLDACTRA
23540	53908	A	23675	2	434	LISLPFPDSLHRPPSSAPTEPQ GLFTVAAPTPGAPSPATLAHL LPTPAMYSLLETENPNVGTPT QAAGTGGPAAPG/GRKMALEN PKMHNSEISKRLGADWKLLTD AEKRPFIDEAKRLRAVHMKEYP DYKYRPRRKTKTL
23541	53909	A	23676	3	264	

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23542	53910	A	23677	1	2377	MDDTFLNYKYKNKCGPKHIKK KEEEEEEDNNSNDSKNKDKTLT TGSSGSAKIFLMRGRRQLLLP TSLCLLSVQRSPGSHESGPPQS MNPRLSPQGKYLKNDFLDVIG MCDIACHLVVELLVGNNGNFL AHAFAHVEVVAQQNQRENAA RPNGGSMIGQGASLRTCQSRV LRVARGGPSNPGESEQGLFTV AAPAGAPSPPATLAHLLPAPA MYSLLETTELKNPVGTPQAAGT GGPAAPGGAGKSSANAAGGAN SGGGSSGGASGGGGGTDQDR VKRPMNAFMVWSRGQRRKM APENPKMHNSEISKRLGADWK LLTDAEKRPFIDEAKRLRAVHM KEYPDYKYRPRRKTLLKKD KYSLPSGLLPPGAAAAAAAAA AAAAAASSPVGVGQRLDTYTH VNGWANGAYSLVQEQLGYAQ PPSMSSPPPPALPPMHRYDMA GLQYSPMMPPGAQSYMNVAA AAAAASGYGGMAPSATAAAA AAYGQQPATAAAAAAAAAAAM SLGPMGSVVKSEPSSPPPAIASH SQRACLGLRDMISITGRENIFV VGDPAACLLPIEMEETFLPWPL GFEDRLHLEGPRPVQEIPSFLRK VPNCGQWLLQTPSVEPADPWE NPQAFPPSLQQEQPCLSLIVGIF VEAFGGRGRWGSKGKKPKRYR TVEWMRIHQPSICCLQETHLTR
23543	53911	A	23678	1	399	

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23544	53912	A	23679	3	1216	LGNKRAGLRRADGEAPSAALPY CYFLQKDAEAPWLSKPAYDSA ECRHHAEEALRVAWCLEAASL SHRPGPRSGLSVSSLRPTRKMA TTFLAHEKIWFDFKFYDDAERR FYEQMNGPVAGASRQENGAIT VILRDIARARENIHKS LAGSSGPV GAS\SGTSGDHGELVVRIASLEV ENQSLRGVVQELQQAISKLEAR LNVLGKELRLAHRGTAPQTQH VSPMR\QVEPPAKKPATPAEDD EDDDDID\LVGRDNE\EEDKEAA QLAREER\LR\HYAEKKAQESLP LGGQVPPSLLDVK\PWDDESDM AQLEACVRSIQ/LGTGRSWGAS QMVAVGYG\IRKLQIQCVVEDD KVGTDLLEEEITKFEEARARSV DIASFSTRSEALKCVYVAHVRE GPCTRSKDLRPAKKKKKK
23545	53913	A	23680	1	2066	MAAALRAPTVSAASSRPPLPS PPETEGRVKGLFQPGPHCPAQC LCGDDGSDNELEQKREVIFPR PHEAPVAEHRQQT VGLRELVAI PKRKEETTAIVQVFVAFEDVAI YFSQEEWELLDQMRLLYRDV MLENFAVMASLGWC GAVDE GTPSAESVSVEELSQGRTPKAD TSTDKSHPCICTPVLRDILQMI ELHASPCGQKLYLG GASRDFW MSSNLHQLQKLDNGEKLKVD GDQASFMMNCRFHVSGKPFTF GEVGRDFSATSGLLQHQTPTI ERPHSRIRHLRVPTGRKPLKYT ESRKSFREKSVFIQHQRADSGE RPYKCSECGKSFSQSSGFLRHR KAHGRTRTHECSECGKSFSRK THLTQHQRVHTGERPYDCSEC GKSFQVSVLIQHQRVHTGERP YECSECGKSFSHSTNLYRHRSA HTSTRPYECSECGKSFSHSTNLF RHWRVHTGVRPYECSECGKAF SCNIYLIHHQRFHTGERPYVCSE CGKSFGQKSVLIQHQRVHTGER PYECSECGKVFSQSSGLFRHRR AHTKTKPYECSECEKSFCKTD LIRHQT VHTGERPYECVCGKS FIRKTHLIRHQT VHTNERPYEC DECGKSYSQSALLQHRRVHT GERPYECRECGKSFTRKNHLIQ HKTVHTGERPYECSECGKSFSQ

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23546	53914	A	23681	1	468	MAAQVGAVRVVRAVAHEEP DKEGKEKPHAGVSPRGVKRQR RSSSGGSQEKGRPSQEPPLAPP HRRRSQPPTSWAAAVNDM/PAP TVPGPVEPLLLPPPPPSLAPAG PADDAPLPAPSTSGLFTFSPLTA SAAGPKHKGTQGAQAQAPSPPRP RW
23547	53915	A	23682	950	1326	RPESQRANGVDSGPNLKTVPQP DTRKGSVLKWISKRGKPLAVEI EESHCLACPLRTECEGIKPIVH LFSCTRPVIVPSLELNVDVDSIA HMFVADLLLMITLPSYDIPFYC LVFQNLVLLEFQYL
23548	53916	A	23683	271	918	NQGLRDLGLCRICLVNKMFTSS ILGKGHRHSLVSIKQEHSA LRK AAG\PLPLKVGYC\QGFSPCDSL KYG\SWDEKDLTVPQPDTHKGS VLRWISKRGKPLAVEIEG\HCL PELPPGELECPG/ILKHGLYHWS SSEMGE\NRPMVG\ARHVYSNA ALLFFTALRIFGQRRNINLGLRA HPGIVPPLELNVDIDSSAHM/FF LADLLLIITLPSYYIPFC
23549	53917	A	23684	1	942	
23550	53918	A	23685	346	1753	TWIPLSRTGRRFPVFSCSSSRVY AAISFHKRWKEGRFCGRTRGE MGWEGRSRSLKELNTRNDWNP GERELDFWRKITRFKEAASWTL EAL EEAGSTARRRVWLEDGRR TCEILSVLCTSSLSSNCASLDCV TYKALSTTRLYDSVYWNKKPE RSSSPATEQSWTENDFDKLREE GFRRI\NYSELKEEARTHGKEVI NLEKK\LDERLTRITNAEKSLKD LMELKTMARELRDECTSFSSQF DPLEERVSVMEDQMNMENK\QE EKFREKRIKRN/EKQSLQEIW DY VKRPNLHLIGVPESDRENGTKL ENTLQEIIQENFPNLARQANIQI QEIQRTPQRYSSRGATPRHIIVR FTKVEMKEKMLRAAREKGRVT HKGKPIRLTADLLAETLQARRE WGPIFNILKEKNFQPRIAYPAKL SFISEGEIQYFADKQMLRDFVTT RPALKELLKEALNMERNNWWYQ PLQKHAKW
23551	53919	A	23686	73	327	GALQPTAALWEPLSGLAKAAA RSLSLQGGVEGDARAGTGAAR GACGPAGVPGGRGLGGPALGA AGRPGP*LPSRGAGLGTAARHA

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23552	53920	A	23687	322	402	DQEPTNSGHIGNLEQCLGHGYQR*LFP
23553	53921	B	23688	545	3063	
23554	53922	A	23689	1	579	MKHEKRDRCAELTAILLNEQAS PMCTIVLGYTGTSTITLPRTSCH FAPRLSNSQQHSSYQVGHKPES YCVRNWWVLGLTDFKNEAAD PHNSGGQLASPSGSRTGAAGG\ VPASPAPCARTPQPLGGRWDW AP\GTGGGIRRGSGCTGTHGG GGRLRHGGLQSGGLPRGKAAK ARREIESSAGYSNSSSKCSII
23555	53923	A	23690	399	592	KCIHFPGPTPKFVCGVIVVTAVP /TFGM*TVYV**LPFSILAQNVG *RDDCDPGWKLNLFYAKKKK
23556	53924	A	23691	3	268	DRV/RPLRKNFQRNDQTAAFTV HENPLLCSYRCWYPGKQEQQK IKPQRGGKNRAEKLETLSRAP LLFQRNAVPHQQRNKAGWRM TLTS
23557	53925	A	23692	29	484	CSFFLVSMVFTFWHDFAAAGTS CSFPCLVLSFRSSFRAGLVVTKS LSICLSVKYFISSSLMKLSLAGY EIVG*KFFSLRMLNIGPHSLLAC RVSAERSAVSLMGFSLRVTRPF SLAALNIFSFISTLVNLTIMCLG VALLEKYLGCILCVS

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23558	53926	A	23693	182	2076	MQEWLRLTARKTELSRDSRSC GQLKTSLLISLLVESTQGRH*SF L/VWTQTHSGGDGWRVAKAW RPKYHDTQLGGEKEEPQGHHA SDCRWRAQPHCRTLSAAVVNV AGFTVTFELRCLTLMKMREKD HHLCDNDIVLFPPDTAFPLDCL LSCIHSTVHGLLRWNAIQYLAS RSESHPERSEGTPDRNGHPAL SLASFNGAQQDRRTVQSLGEKP GLPEEMAAAFMAGTEKEQNELG IEFFQLIIPASKRTHSENALFSHS GDDTECSRSGQGSPPSYRGPP RRTFILATQPLCSKEAQTSPHEQ PTRTEKNRGSHLYHKSPCDHAS PGMSVTMSGMQQALPRQLTTL TFYPPAFRSIKIFRIMILKTEMLH THARSQEALLKDSSKTMHLSTL PSCVRKSNYHHRERIKTKEAF PAKIHRSRNQGMKVEVAPLTIT SSDPLAEFLLPVTVTLCASLEV LAPEGGM LSPGDATMIPLNWK LTLPPGHSGLLLPLSQQVKKRV PVLVGVIDLDYQDEIDYSSMK ERSSSPATEQSWMENDFDELRE EGFRRSNYSELREEIQTKGKEV ENFEKNLEECITRITNTEKCLKE LMELKTKVRELREECRLSRSC DQLEERVSAEMEDEMNEK
23559	53927	A	23694	933	1118	RVERRRLQTIKLLRATGGNSNQ RQRS*KL*KKFRMYN*NNQY REVLKGADGAESQGSRTT
23560	53928	A	23695	2	250	WCHTKLDGLSLFGESVALEEA GGQTALWLMRFLSRKANYVD KITTREVGHRE*LMSSRLHSR* WAASSVCSSSCVLLPSSH
23561	53929	A	23696	1017	1230	
23562	53930	B	23697	62	1069	
23563	53931	A	23698	216	582	ILVPTLFWLGEFLLRDPLL*W ASI*G*PD/AFSLAALNIFSISTL/ RESDNYSVWSCSSRGVSL*RSL YFLNLNVGLPCQIGEVLLDNIL QSVFQLGSILPVTFGYTNQMCI WFHFIHFIFHH
23564	53932	A	23699	434	681	TLACLARLGKFSWIISCRVFSNL VPFSLSLSGTPIRRRFGLFT*SHI SWRLCSFLFILFSLNFPSPRFISFV SSSITDTLSSS

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23565	53933	A	23700	290	1231	RSFRAIGEVSIRGWGGGYAAQ LQSPSRLPVLGGGKKGSRGV GQGSSRAEVLGSQRERSGTCC AEAAAAAAQLIAGTGSSLPYQG PGQNQTAIAPTCAPLSPCKAAA VIMGNIFGNLLKSLIGKKEMRIL MVGLDAAGKTTILYKLLGEIV TTIPTIGFNVETVEYKNISFTVW GCGVARDK\IRPL\WRH\YFQNT QGFJILWSDSN\DR\ERVNEA\IR EEL\MKNAGAETSLRDAVLPFL/ FGNKTDLRNAMNAAG\IQDKL GLHSLRHRNWY\QATCATRG NGLYEGLHWLANSVVPKQEVES RTALTKHPNRP
23566	53934	C	23701	164	208	
23567	53935	C	23702	1	381	
23568	53936	C	23703	43	276	
23569	53937	C	23704	1	462	
23570	53938	C	23705	38	121	
23571	53939	A	23706	77	202	QKNYTQRPLPLHGLLELEVTCR CWSWQPLLEPLELRPLRSD
23572	53940	A	23707	123	209	
23573	53941	C	23708	1	411	
23574	53942	A	23709	1400	1809	SSNPLSRPPLPTVTPCPLLRLSL LRACCCCLFLPLRFFSCPLLCLF LCFFFSVCSPAHNFKMPKPQW SGIPTGPPPSGSCFKCQKSGHW A\RNACSPGFLLSHVPSVWDPT GNQTVQLAWQPLLEPLEL*\R LSD
23575	53943	B	23710	76	358	
23576	53944	B	23711	1	606	
23577	53945	C	23712	272	388	
23578	53946	A	23713	1	259	PGVRGAQGGPSIPRQCEESAIGP KFAWIISSFWKQGMFNMEAP SSLFFVNMCAVKKQTTWGRPD RGFIWQPLPELEL*\R\RLSD
23579	53947	A	23714	684	917	GDFGLRQWGFLNIQSCHLQTGT I*LPLFLIEYPLFLSPA*LPWPELP TLCCIGVVREGISVLCQFSKGM LPVFAHSV
23580	53948	A	23715	618	683	
23581	53949	A	23716	306	710	DRVSLLTPLRGVQWPDPSLQP RPPGFKRFYCLSLPSS*DYRHEP LLPAYFFPYRIJWSRL
23582	53950	A	23717	2	88	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
23583	53951	A	23718	972	1967	FPPGRGRGPGRPAGCSRGRARA CPKPVVDHVKRPMNAFMVWSR AQRKMAQENPIQMHNSEISKR LGAEWKLLTESEKRPFIDEAKR LRAMHMKEHPDYKYRPRRKPK TLLKKDKFAFPVPYGLGGVAD AEHPALKAGAGLHAGAGGGLV PESLLANPEKAAAAAAAAAAR VFFPQSAAAAAAAAAAAAAGS PYSLLDLGSKMAEISSSSSGLPV LNMPNMHINSLGKNLALNLEV YNDANSMLDLCYDGVGDKGPI CFCATQGYEDIFKAGYGSVVD YYNDGSDLTTPLEIATVIPTFSN HPLMSQRPSTWRQNPPLAKRLP LTEDSDGDDH
23584	53952	A	23719	2	144	RPQRRP/LPPPTGSPLKHPGGAS GAAGAPIGEPQHPPGAVVSVRA WSLCS
23585	53953	A	23720	219	897	PGRAGGTGLGLSRRDGTREKG VEETPHRLHARTDTTAPGCCGS PIGAPAAPEAPPGCFEGPRWVE GVKKASPPLPAELIGWLVNFPL ARPVRPPSLSPGPPRRPPEGVCG SWPGRSEGERGKAKNTAESTPR QNLHRKYTIIVTHYQRNRKGQ NISFSLVCEFHPSLADWTTVTA LTWTSPKDNSLTEESWLREGN VHRGMDEYVRAQSFLILMTLE NSGGSVVSK

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23586	53954	A	23721	937	2730	TNPCHDHYHHHHHCHHCH HHHHHCHHHHYHHHHHCRDH HYHHHHHCHHCHHHHHHCHH HHYHHHYHHHCHDHHYHHHH HCHDHHYHYHHHHCHDHHYH HHHHCHDHHYHYHHHCHDHH YHHHHHCHDHHYHHHHHCHD HHYHHHHHCHDHHYHYHHHC HHHRYHHHHHCHHCHHHHH/P HHHHHHHCHHHHYHHHHHC HHHHYHHHHHCHHHHYHYHC HHHHYHHHHHCHHCHHHHYH HHHHCHDHHYHHHCHHCHHH HYHHHHHYHDHHYHHHHHCH HCHHHHHHHHDHHHHHLCHH HYHHHHHHHHHHHYHHHHHH HLHCHHHYHHHHHHHHHHHY HHHCHHCYHHHYHHHHYHCH HHYHHHHHYHPYHYHQHHHH YHPHHYHHHYHCHHHHDYH HPHHCHHHHHYHQHHYYPITII TTTITTTITIIITVTTTTFTTTNT TAPTTPVTAITTTTTTTTTITTT TPITITTITNITTTTVTTTVITTF TTTIHPYHHHHHHHPVTITTTIT TATIITTTTSITTTITTTIVTTII TTTAATHHHYHPYHHHYHHHH HHHHTHSYHYHHHHHHHCF HYHHHHYHHH
23587	53955	A	23722	2348	2571	
23588	53956	A	23723	4919	5142	
23589	53957	A	23724	2	370	
23590	53958	A	23725	588	701	
23591	53959	A	23726	295	521	
23592	53960	A	23727	2837	3061	
23593	53961	A	23728	272	436	
23594	53962	A	23729	239	514	
23595	53963	A	23730	105	367	TGRPPELLLHLRSLSPPLL/CSSP/ TPPPQLPPPPVSLASGYPLLHPL ARYPACPLPPRRARTEQRGGEQ PGVGASPLPIPGRWPGTEAT
23596	53964	A	23731	999	1145	
23597	53965	A	23732	1084	1893	

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23598	53966	A	23733	1605	2296	HSIHSSVDHPENRIYRRKIEELS KRFTAIRKTKGDGNCFYRALVAI PYLESLLGKSREIFKFKERVLQT PNDLLAAGFEEHKFRNFFNALR AGRAQFYSVVELVEKDGSVSSL LKVFNDP\GASDHIVQFLR/LCF TSAFIRNRADFFRHFIDEEMDIK DFCTHEVEPMATECDHIQMTA LLQALSIALQVEYVD\GWIPALT QHVFLAATPSVYMLYKTSQY NIL\YAADKH
23599	53967	A	23734	529	1830	AGYGDRTMLARKSIPEEYVLA RIAAENLRKPRIRDRLPKARFIA KSGACNLAHKNIREQGRFLQDI FTTLVDLKWRTLVIFTMSFLC SWLLFAIMWWLVAFAGDIYA YMEKSGMEKSGLESTVCVTNV RSFTSAFLFSIEVQVTIGFGGRM MTEECPLAITVLILQNIIVGLIINA VMLGCIFMKTAQAHRAETLIF SRHAVIAVRNGKLCFMFRVGD LRKSMIISASVRIQVVKKTTTPE GEVVPIHQLDIPVDNPIESNNIFL VAPLIICHVIDKRSPLYDISATDL ANQDLEVIVILEGVVETTGITTQ ARTSYIAEEIQWGHFVSIVTEE EGVYSVDYSKFGNTVKVAAPR CSARELDEKPLPSLFRPSQKSEL SHQNS\LRKRNS\HRRNNFHRRN N\SIRRN\SSLMVPKVQFMTPE GNQNTSES
23600	53968	A	23735	968	1243	
23601	53969	A	23736	541	1010	SVTSCLKVTSVCLTSAAASCRH RRSVEEYLV*\KLPM/WSRRRK AAALTES/V/CIVFWLASWMMS RWLHYPDWVTIIAQQVLMNVV SVMQADCRMNLLIFLRWLMR KIFHNILRHFSQLLNVPIRPF WILRPF
23602	53970	A	23737	766	1910	LLTARLTWVSARLMSYVLLMC *LFPRLLSCLTTPHCSFSICFVI CSRTLILKGSSLMYVFCLPNTAI GGSSRVDRCAATSRGSSRVDL TL*KYSLVGPSVPLVSSV**SDW PLKLLMTMMS

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23603	53971	A	23738	581	1434	KLPMGVAVVKLLHLPKVIHFW LASWMMRWLHYPDWVTIIAQ QVLMNVVSVMQADCRMNLEI FLRWLMRRASDICSSIHGD*EPL L/YAVFGKQNTYIRLEPFKINVL EQITKHIEKLQCGGVVKQLSRR GNNQHISSTYDINRADTQVRR VNNYDIIVMSNSFNGQSEHQV WIDRKAGECLLHEYEDLVPIRD TLRLFPGGRYLPRAKHVAPSEP DPEQDEQKLRFCRHLYGKQP RSPVERVWDHGPTRIVGLIISLG PRSHSYRRSDNQTGTTVPLVSS
23604	53972	A	23739	515	774	LFPRLLSCLTTPPHCSFSICFVIC SRTLILKGSSLMYVFCLPNTAIS GTTVPLVSSV*LLVWDHGPTRI VGLIIRLGPRSHSYRRS
23605	53973	A	23740	322	763	CRMC*LFPRLLSCLTTPPHCSFSI CFVICSRRTLILKGSSLMYVFCLP NTAIVMALSPRGWRSKFGMPV EDTSLSTPAAPMVDSLIARVGV MARGNAITLPVCGRDVKSTLE VLRGDSVEKTSRVWSGNERDQ ELLTEDALDDL
23606	53974	A	23741	1	127	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEK*RRL SPLHSLMMTARKRGK*PGAGE
23607	53975	A	23742	9	437	WLGLGNWKERLGTQTRMIWS QKTARRLCRTFSGIPAYSMCI/CI GMAERMWCDNRNRERTVSSSG GNRLPNPDWAPGPPRIVGLNIS LGPTVPTRIVGLIISLGPRSHSYR RSDNQTGTTVPTRIVGLILVLGP WSHSYRRSDY
23608	53976	A	23743	766	767	LLTARLTWVSARLMSYVLLMC *LFPRLLSCLTTPPHCSFSICFVI CSRTLILKGSSLMYVFCLPNTAI GGSSRVDRCAATSRGSSRVDL TL*KYSLVGPSVPLVSSV**SDW PLKLLMTMMS
23609	53977	A	23744	573	1085	VCHQILTHLPALLSGARMWWD QLWRGRP*RRCQQPQCGG*WH CFWATAHHSPLDSTLNHLHCLP RGP
23610	53978	A	23745	2	379	WLTRSSCSWRLPPRRKKKGAL V*PVWLPPGGVAVLLQLGCCV LQDVSCKRLCYNRKGQSEIVL MS*ITMWKLFPRPPLLPFSTCIC *KTCGKRGRSK*KVDILVLSIRF SAIKLEPLDCHENAWL

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23611	53979	A	23746	575	576	TGIDSDQLNGRDWRRALSVSPA PDSGFPRCNGDEQAGI*LLGTG WAEKCHRLAFPPAGSTAGR
23612	53980	A	23747	1	723	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGRRLRAEDVFPPI GVAAHKGGVYKTSVSVHLAQ DLALKGLRVCSWKERPPGNSL NVSRMVWDHDPTRVVGIIIGL GPRSHLYCRSDYQQRS\TSVCG CMPAVDCCCVLLIHNILRTVM WTKYLVTAQVAPAR*PGCIRCKC
23613	53981	A	23748	1	1101	
23614	53982	A	23749	5	205	YCSSLFTAITSRAFLPDRRITT PPATSPSPFSSAMPRIISGPIWTF ATSRR*TGTPFSLAFKTM
23615	53983	A	23750	1	761	
23616	53984	B	23751	56	2188	
23617	53985	A	23752	627	1272	
23618	53986	A	23753	448	2218	VRRQRSDPERSDARMVRFCLN YI*RKNPFILH*LFR*TLRQTKPD NSAGKCVKI
23619	53987	A	23754	171	959	AASRGPDAPGLEMAGNCSWEA HPGNRNKMCPLSEAPELYRR GFLTIEQIAMLPPAVMNYIFLL LCLCGLVGNGLVLWFFGFSIKR NPFSIYFLHLASADVGYLFSKA LFSILNTGGFMGTADYIRSVCR VLGLCMLLTGVLLMPAGWDE RGVRSERAWCTVETGRVHRSR VRVSRNTARDPANGLGHLLQS LGMPALEPGPTLGSALRWEFLQ TASPQLPVQPLHPAAATPQRSL RGRGRGPKARALGLGPRSTSYR
23620	53988	A	23755	664	838	
23621	53989	A	23756	2732	3007	
23622	53990	A	23757	1522	1706	CHYFACMWSGCEVYS*SAPG** C*EDLSGLVRCRCLHSNAETPI* FAANADTSRPGPFLCR
23623	53991	A	23758	537	795	ADCPLHMGRPCLID*GPCRTE*P RCAVVCLLWIAAVSCLSTT/SLR TGI/DGPKYLVTAQVAPARYPGCI RCKCVAVDELASSDMRLPCS
23624	53992	A	23759	2074	2276	
23625	53993	A	23760	36	206	ECWIWCELGAELHHQP*ASSH WKSSYRQQSSLPCRASQRTLH LLLQGWAVLGPLE
23626	53994	A	23761	444	725	
23627	53995	B	23762	1	1212	

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23628	53996	A	23763	11	972	RFSKSLD SGVQLASPSGSRTG ATGGA AHSPARAPALHSPWAV DGTRGRLAGTAGLWSPRPAFH FKVSLSLPFSCVSSPFGPPLGPS PRKHQMADDAGAGVGGRRPR GPRMG/NRGGFRRGFGSGIRHQ GCGCGQGQGGQGRGVRRGKAE YKEWMTVTKLGH LVKDIKIS LEEIYLF SFFKTSSSLKDEVLKI MLVQKQTHTSQC TRFKAFVAT GDYNGHISLGIKCSKEVATAIC GAILAKLSIVPACRGYWG NKIS KPHTIPCKVAGCCGSVLVCLIS VPRGTGIVLAPCEGDRGLRKSS PASLSPESCKDGSHSRSF
23629	53997	A	23764	2	260	LLEECRSLRSCDQLEERVSAM EDEM NEMK*EGKFREKRISPKR APERSAKHGKEQPVPA AAKSC QNVNTIETRKKLHQLTSKITS
23630	53998	A	23765	3	1150	
23631	53999	A	23766	1	1521	
23632	54000	A	23767	1	753	
23633	54001	A	23768	1	3351	
23634	54002	A	23769	1	1740	
23635	54003	A	23770	1	1353	
23636	54004	A	23771	1	1932	
23637	54005	A	23772	1	1221	
23638	54006	A	23773	1	1214	MAKKQNRKTGNSKKQRASPPP KECSSSPATEENWTENDFDEL R EEGFRQSNYSELWEDIQTKGKE VENFEKTLEECITRITNTEKCLK ELMELKTKAQELRKECRSLRSR CDQQQERASVLEVLEVLAR/QL GRKRK*RVFN*EKRSNCPCLQ TT*LYI*KTPLSQPKISLS**ATS AKSQDTKSMYKNHKHSYTPPT DKQRAKS*VNSHSQLLQRE*NT *ESNLQES*NWISSLHLIQSIQD GLKT*TLDLKPSKP*KKT*ALPF RT*AWARTSCLKHQKQWQQR T KLTNWI*LN*RASA/PAKESTV/S SEQATYNMGENFHNLLI*QRAN IQNLQ*TQTNLQEK NKQPHQKV GEGHQQTLLKRRHLCSQKTHE KMSIITGHQRNANQNHNEIPSH TSYNGNH

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23639	54007	A	23774	1157	2085	QGRPTDFADFGTTIKQDFRLLG QTSVDRLLQLSQGQAVKGNQL LPVSLVKRKTTLAPNTQTASPR ALADSLIAAGTTGFTGKRAVS ATQLMTQFSPAREQSWRKN/DF DELRKE/GFARSNYSVEKCLKEL MELKTKARELREECRSLRSRCD QLEERVSAMEDEMNMKREG KFREKRIKRNEQSLQEIWVYVK RPNLRLIGVPESDAENGTKLEN TLQDIIQENFPNLRQANVQIQE IQRTSQRYSSRRATPRHIVRFT KVEMKENMLRAAREKGWVTL KGKPIRLTADLVAETLQARRE WGPIFEPP
23640	54008	A	23775	1	1707	
23641	54009	A	23776	1	1899	
23642	54010	A	23777	1	2781	
23643	54011	A	23778	1	831	
23644	54012	A	23779	1	3264	
23645	54013	A	23780	1	882	
23646	54014	A	23781	1	1853	
23647	54015	A	23782	1	550	
23648	54016	A	23783	1	831	
23649	54017	B	23784	64	3436	
23650	54018	A	23785	1	1422	
23651	54019	A	23786	1	773	MGKKQSRKTGNSKKQSATPPP KERSSSPATEQSWTENDFDEL EEGFRRSNYSELQEETQTKGRE VENFEKNLDECITRTNTEKCL KELMELKAKAWELREECRSLR SRCNQLEERVSVMEDMNMK REGKFREKRIKRNEQSPQVIRD YVKRPNLRLIGVPESDGKNGTK LENTLQDIIQENFPNLRQANIQ IQEIPRTS/QRYSSSEHSIIGLIGR FPS*RTDMFRAPKKREQKRNNR KIQKEEGGRTAPTGI
23652	54020	A	23787	1	2775	
23653	54021	A	23788	1	2712	
23654	54022	A	23789	1	1590	
23655	54023	A	23790	1	547	MGKKQNRKTGNSKKQSASPPP KECSSSPATEQSWTENDFDEL EEGFRRSNYSELREDIQTKGKE VENFEKNLEECITRTNTEKCLK ELMELKTKARELREECRSLSSR CNQLEERVPAEMEDMNMKE D/GNRYDDRRQ/RKEEIMIKSW RFCCRHLIRVVRGWGPSKYLWI TMVVTLAGNPQ
23656	54024	A	23791	1	710	

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23657	54025	A	23792	1	895	
23658	54026	A	23793	1	1938	
23659	54027	A	23794	1	1413	
23660	54028	A	23795	985	1219	LCSGSVERCTESYLHSSHCLVQ QAGVTGDEGGSCY*DPPSHHRS HPRKLKLCQEFSVTSAPWRK CRSLHGRFPGLP
23661	54029	A	23796	1	3570	
23662	54030	A	23797	1	634	
23663	54031	A	23798	1	4551	
23664	54032	A	23799	1	4721	MHPSQRTPYQSRSPATIFATVST FKSHKSNLETKHPQQVPLSSLG LAANISSEDIESEAEDNGKWES VDRTSFFPALTSFQQSMIHKKI MTVFKSVEPEDGLGRPTLAFHE DRCQLSIQNSLDAGGGCPSMA APPAEVHELASGLISAAALLSP AASGRVSKHQHIPTGFPDPPKA LHKGKLTTRKDIYTENPSVHHH HQRPKVDKTTKMGKKQNRKT GNSKTQSASPPPKECSSSPATEQ SWMENDFDELREE

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23665	54033	A	23800	1	2152	MDILGWASRAHKWKGRATGT HVFNLMREYLISLQCCASEQAA SPEHGASFRVWKS LGFQKLILS LICPQCLQSLTRETWMRFKSKK TKGPDLRLVMDANKWEFRRH ALRPALTFFNEGDDLGV EALPV ALPPEAHVGGVVLPAALVRGA HGEQLPAIPGPEEFALPAVQAR AARPERQVVVIVVNEAGV DPA GVEGLAPVPVLPGVRL EATAPK QPPRLPARLRAPLPSGRKLNAK CPRLRWGFFVQDGDGTELACL SEGDGGCCQEAPLDHRPRRLRG LAGSAGAREAREPRLRPGDWG NRIARVRAPEEAAAALSRPARV AAALAKTHRREHRARSQKLVM SSVQQGKLTRKDIYTENPSVH HHHQRPKVDKTTKMGKKQNR KTGNSKKQSAFPPPKECSSPA MEQTWTNDNDFDELREEGFRGS NYSELREDIQTGKEVENFEKD LEECITRITNTEKCLKERMELKT KARELREECRLSRCDQLEER VSAMEDEMNEMKREGKFREK RIKRNEQSLQEIWDYVKRPNLR LIGVPESDVENGTKLENTLQDII QENFPNLARQANVQIQEIERMP QRYSSRRATPRHIIVRFTKVEM KEKMLRAAREKGRVTLKGKPI RLTAVLSAETLQARREWGPIFN ILKEKNFQPRISYPAKLSFISEGE IKYFIEKQMLRDFVTTTRPALKE
23666	54034	A	23801	1	2109	

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23667	54035	A	23802	1	2544	MSVHSWKPSWIRPIRSLSPKRPL GTQGTSEVPPDTHICQTKFHSL SGPLLLSVHPVGKLSAVVGRVF IHILSQRRRRRRVISAFPSEVPG SSHQGVDPDSGCRSVGAHPVREP KQGEALPHSGSPREGKLTNRKD IHTKNPSVHHHHQRPKVDKTT KIGKKQNRKTGNSKTQSASPPP KECSSPATEQSWMENDFDEL EEGFRQSNYSELRKDIQTKGKE VENFEKNLEECKTRITNTEKCL KELMELKTKARELCEECSRLRS RCNQLEERVSVMEDEMNE REGKFREK\RIKRNEQSLQEIWD YVKRPNLRLIGVPESDVENG LENTLQDIIQENFPNLARQANV QIQEIQRTPQRYSSRRATPRHIIV RFTKVEMKEKMLRAAREKDRS TRQKVNKDTQELNSALHQADL IDIYRTLHPKSTEYTFFSAPHHT YSKIDHIVGSKALLSKCKRTEII TNYLSDHSAIKLELRIKNTQSR STTWKLNNLLNLDYWVHNEM KAEIKMFFETNENKDTTYQNL WDALKAVCRGKFIALNAHKGK QERSEIDTLTSQLEKEKQEQT HSKASRRQEITKIRAELEKETQ KTLQKINESRSWFFERINKIDRP LARLIKKREKNQIDTIKNDKG DITDPTEIQTTIREYYKHL YAN KLENLEEMDTFLDTYTLPRLNQ EEVESLNRPITGSEIVAIINSLPT

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23668	54036	A	23803	1	1886	MKENFKHRHVVAFISSQEAQE DSREEEDRLESFYFLFLELSY KTTGLNREPTVSLNSKSGTPMD QNEHSHWGPBAGKQGCASRSEL RIILVGKTGTGKSAAGNSILRKQ AFESKLGSQTLTKCSKSQGSW GNREIVIIDTPDMFSWKDHCEA LYKEVQRCYLLSAPGPHVLLL TQLGRYTSQDQQAQRVKEIF GEDAMGHTIVLFTHKEDLNGG SLMDYMHDSNDKALSCLVAA CGGRICAFNNRAEGSNQDDQV KELMDCIEDLLMEKNGDHYTN GLYSLIQRSKCGPVGSDERVKE FKQSLIKYMETQRSYALAEAN CLKGALIKTQLPKVDKTTKIGK KQSRKTGNSKKQSTSPPPKERS SSPAMEQSWTENDFDELREEGF RRSHYSELPEDIQTEGREVENFE KSLEECITRITHTEKCLKELMEL KTKARELREECRSLRSQCDQLE ERVSAMEDEMNMKREGKFKE KRIKRNEQSLQEIWVYVVRPN LRLIGVPESDAENGTKLENTLQ DRIQENFPNLRQANGFCRFRN HHQTGFSPAGANQRGPLAATLS GPGGEGQSAVARLTGEKKNHP GAQYANRLSPRVGRFINRSWH DRFPDWKAGTGLKSAIFAW
23669	54037	A	23804	1	4134	
23670	54038	A	23805	1815	1849	

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23671	54039	A	23806	1	4016	MGKKQNRKTGNS\KTQSAFP PKECSSSPATEQSWMENDFDKL REEGFRRSNYSELRIEDIQTKGK EVENFEK\NLEECITRITNTEKC LKELMELKTKGSRYVKECR\S LRSRCDQLEERVSAEDEME MK*EGKFREKRIKRNEQSLQE W\DYVK\RPNLRPIGVSESDGEN GTKLENTLQDIIPENFPNARQA NVQIQEIQRTPQRYSSRRATPRH ILVRFTKVEMKEKMBRAAREK GQVTLKGKPIRLTADLSAETLQ ARREWGPINFILKEKNFQPRISY PAKLSFISEGEIKYFIDKQMLRD FVTTRPALKELLKESLNMERNN WTSKQIIQEDGYSEEGWLCRA VIYSHTLQAIMAIVKATGNLQT DFANPFHTDDARQQFAMSYTV VGQGALPEDLSRCHLQTEAVQ RHPESLGCPLDLLHGMPVSSCF GYPQDTSSTV
23672	54040	A	23807	2059	3153	
23673	54041	A	23808	6	188	
23674	54042	A	23809	3	1014	VACRPLPRRRAQPATFIPRVAV KMALVASVRVPARVLLRAGAR LPGAAGFRTERAAGGGDGA\RP VFGSQRVLVEPDAGAGVAVMK FKNPPVNSLSLEFLTELVISLEK LENDKSFRDVILTSD\RPGVFSA GLD\ITEMCG\RSPAHYAWVLE RPVQELWLRLYQSQL\VLVSAI NGA\CPAGG\CLVALTCDYTIL AGNPRYCIGLNE\TQ\LGIIAPF WLKDNPWRTPIGHRAESA\LQ LGLPLPPAEALQVGIVDQVVP VEEQVQSTALSIAQWMAIPKP MAHK\LTKAIMRKGQGPWWS RKGYADVQNFVSFISKDSIQKS LQMYLERLKEEK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
23675	54043	A	23810	1	2665	MTTSIRQFTSSSSIKGSSGLGGG SSRTSCQLSGGLGAGSCRPGSA GGLGSALGGSSYSSCYSGSGG GYGSSSFEGVDGLLVGGEKAT MQNLNDRLASYLDKVRALLEA DTELEVKIRDWYQRQAPGP DYSQYYRIEELQNKPPSDDL TLPSPILATVDNANILLQNDN AHLAAADFRTKFETEALCLSV EADINGPCRVLDELTLARADPE MHLENLKEELAYLKKNHEEMN APRGQVGGEINEMGAAPGVD LSRILNEMREQYEKMAEKNRK DAEDWFFSKTEELNREVATNSE LVQSGKSEISELRCTMQALEIEL QSLSMKASLEGNLAETENRY CMQLSQIQGLIGSVEERLAQLL CEMEQQNQEYKILLDMKMRLE LEITTYHRLLEGEDAQTVQHTP GSPCVPEWAHDCSLPAQLDE WSCQAQRGICGHRRENCWERIP SQSCFYRPTARSLTSLGTMST CSHQFTSSRSMKGSCSIGSGIGG GSSRISSVLAGGSCHAPSTYGG ASCGLGGGYGGGFGSSSSFASG FGGGYGGGLGAGFGGGLGAGL GGGFAGGDGLLVGSEKVTMQH LGDRLASYLDKVRALLEANAD LEVKIRDWYQRQRPSEIKDYS YFKTIEDLRHKIIAATIENAQPIL QIDNARLAADDFRTNYEHELAL QQTVEAGVNGLCREMLALRGQ
23676	54044	A	23811	222	548	TLPCGDHHHSQDPARLPSWHD LLQERSEKCGSQDWQRDSVQP GVSYQFCCVPWPAGRSPQPRH CWGCCGTEASYDSGI*SLSTPG GGQLQGSV*GPDGAGLQNSHR
23677	54045	A	23812	2	165	
23678	54046	A	23813	1	665	
23679	54047	B	23814	1	1673	

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23680	54048	A	23815	1	331	ARQLRTSAMTMPVNGAHKDA DLWSSHDKMLAQPLKDSDEV YNIKKESNRQRVGLELIASENF ASRAVLEALGSCLNKYSSEYP GQRYYGGETEFIDELETLCQKRA LQAYKLDPQCWGVNVQPYSGS PANFAVYTALVEPHGRIMGLDL PDGGHLTHGFMTDKKKISATSI FFESMPYKVNPDGTGYINYDQLE ENARLFHPKLIIAGTSCYSRNLE YARLRKIADENGAYELMADMA HISGLVAAGVVPSPFEHCHVVT TTTHKTLRGCRAGMIFYRKGV KSVDPKTGKEILYNLESLINSAV FPGQLQGGPHNHAIGVAVALK QAMTLEFKVYQHQQVANCRA LSEALTELGYKIVTGGG/CVISG GAGKPG*FSHQDGTGTSQDGG RRPFLHHTLSY
23681	54049	A	23816	3	1709	SHPTPRETPTGVEGQATPSVLG AAPASQAKATPTLGRPHASDR GEVAQLDEWSCQAQRGICGHR RENCWERIPSQSCFYRPTARSLT SLLGTMSTCSHQFTSSRSMKGS CSIGGSIGGSSRISSVLAGGSC HAPSTY/GGGLCVSFSRFSFGGA CGLGGGYGGGFGSSTNFWVSGF GGGYGAGLGAGFGGGLGAGL GGGFAGGDGLLVGSEKVTMQH LGDRLASYLDKVRALLEANAD LEVKIRDWYQRQRPSEIKDYSP YFKTIEDLRHKIIATIENAQPIL QIDNARLAADDFRTKYE\HELA LRQTVEADVNGLRRLVDELTL ARTDLEMQIEGLKEELAYLRKN HEEEMLALRGQTGGDVNVEM DAAPGVDSLRLNEMRDQYEQ MAEKNRRDAETWFLSKTEELN KEVASNSELVQSSRSEVTELRR VLQGLEIELQSLSMKASLENQ L\EETKGRYCMQLSQIQGLIGSV EE\QLAQLRCMEQSQSEYQIL LDVKTRLEQKYCHPTAALLEG EDAHLSQQASGQSYSSREVFT SSSSSSSRQTRPILKEQSSSSFSQ
23682	54050	A	23817	2	365	

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23683	54051	A	23818	1	464	RRWRICSTWTRSFATAWLPPAP SANFPRTDRSQGDRGAPAGFAL APILEFFLWDTSSQKFLQKPHCF MHGRERAKMGRRAQQESAQA ENHLNGKNSSLTLTGETSSAKL PRCR/QGGWAGDSVKASKFRR KASEEIEDFRLRPQSLNGSDYG GDIP
23684	54052	A	23819	384	805	
23685	54053	A	23820	3	392	MKYSAIQTLTLDGEIDLKLLTKVL APEHEVR*VQWWQQFPGLSTL AIPINPAELPGLALCLP*RPWNG REKVSLQLREKALSLSYPKPF LAEDDVGWWDHDLFTVSSEV LTEWDPLQTEKEDPAGQARHT
23686	54054	A	23821	63	785	GPIRGPWGPGFGGWGGATPPAP TSLRRLRAAGLAPRRRAKMGR RAQQESAQAENHLNGKNSSLT LTGETSSAKLPRCRQGGWAGD SVKASKFRRKASEEIEDFRLRP QSLNGSDYGGDIPINPDLEEVQ EEDFVLQVAAPPSIQIKRVM YRDLNDNLMKYSAIQTLTLDGE D/IDLKLLTQK/VLAPEHEVRER NPSWQDDVGLGTWGPICSTEV SLRRSFTEWDP/LQTEKEDPGG QARHT
23687	54055	A	23822	1	441	MSFNCSTRNCSSRPIGGRCIVPV AQVTTTSTTDADCLGGICLPSSF QTGSWLLDHCQETC/CGCQPLG GISSVCQPVGGISTVCQPVGGV STVCQPACGVSRITYQQSCVSSC RR/PAKCVGASERIKTPRPASCF QDLPACCLSLNSSS
23688	54056	A	23823	1	538	PTRPLQQATCSPLSDIMSFNCST RNCSSRPIGGRCIVPVAQVTTTS TTDADCLGGICLPSSFQTGSWL LDHCQETCCEPTACQPTCYRRT SCVSNPCQVTCRQTTCISNPCS TPTAGRSP/CVSSGSQPLGGISS VCQPVGGISTVCQPVGGVSTVC QPACGVSRITYQQSCVSSCRRTC

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23689	54057	A	23824	832	1885	AEWDAADKAHVGPGRSPRQPL PHVGRRRRAHTTGRGRRTAGC APAPARTLCILSILGPWCVLPHL PTLCLGQAQAASCSQGAHGCF AGCST/GTSASHPV/CCKCPLH PVCTLADVHGCTSGFSVISLPQ TCAPWTSWRKWSLSDSWQVD ACPESCCEPPCCATSCCAPAPCL TLVCTPVSCVSSPCCQAACEPSP CQSGCTSSCTPSCCQQSSCQPA CGTSSPCQQACCVPVCKPVCC VPVCKPVCKPICCVPVCSGA SSSCCQSSRQPACCTTSCCRPS SSVLLCRPVCRSTCCVPIPSCC APASTCQPSCCRPASCVSLLCRP TCSRLSSACGLSSGQKSSC
23690	54058	A	23825	1	3097	MDEKRTLQPEEADVPAYPKV ATVPQSEKKPSKYPLCSADAAV STTPPGSPPPPPLPEPPVLKVLS SLKPAAPSPATAATTAATASTA ASSTASSASKTASPLEHILQTLF GKKKSFDPSAREPPGSTAGLPQ EPKTTAEDGVPAPPLLDPIVQQF GQFSKDKALEEEEDDRPYDPEE EYDPERAFDTQLVERGRRHEVE RAPEAAAAEEREVAYDPEDETI LEEAKVTVDLPLNRMCADVRR NSVERPAEPVA
23691	54059	A	23826	67	442	VKFFCLYLQSNKPMKNFKQG SNNQLLMRSFWLLCGIDYKKPP PPPAPGPESVAPALSGPPPPAHS RGPRAVVRA\PPPPGPRHRSPA PPPPPGTEPSVATYSIKASKRVS QQDRCHNLMKSQE
23692	54060	A	23827	3	657	GERSRRWGPACGPGAAEKTTP CDAGAAGAAPGAPGHAGNPGL GSGPDYD\GEATCMHLHPDDPC PAGAGCCPGSFEVAFPDAAEK MKKSLHSLKKGCSRVCDLPL DCPGCDSDSGRQAMFSCIVNFQ LPKEESPIPGSSQEESGSPSHSEC DSVGVDWRGQVRSLQLQAPNH SLVLLVTSLFQETTKSHLNRTN DAVSPRKFKRLGALYWGKVEA
23693	54061	A	23828	141	246	
23694	54062	A	23829	1	609	
23695	54063	A	23830	1619	1752	

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23696	54064	A	23831	54	470	CSTMNPSEMQRIAPRRQRHRS RAPSAHKMNRVMVMSSEQMKL PSTKKAEPPTWAQLKKLTQLA KKK\LENTKVTQTPENMLLAAL KTVSTVSAGVPSSESDHRER AMMTTVVLSKRRGKCGEKKEI SDCYCVYVERS
23697	54065	A	23832	213	572	IQWYPYQDTIDFLHRIRKNFFKF HMEPKKSLHCQDNPKPKEQSW MHHTT*LQTMLQGYSNQKRMP PHLGSEERLCPAAPSGR*GAPLP GRCAIFQV*SDSLSAGVPNSSEE TATIENGP
23698	54066	A	23833	296	583	
23699	54067	A	23834	2452	4557	
23700	54068	A	23835	3	266	
23701	54069	A	23836	31	499	ARVTA AVSAAVAKR VWRDG FDCSGYYSLTILLVQPTKRPE GRTYADYESVNECMEGVCKM YEEHLK\RMNP\NGPSI/THNTTS QLFDFID\DLADLSCLVYRA\DT QTY\QPYN\KD WIKDEDPTVLLS SGKAQQAREIIVVGSHWGGWG GAWDTGV
23702	54070	A	23837	3	323	
23703	54071	A	23838	366	892	PCVYSQFPAGEQCLKLHSPA EA SPPALEASEAQTRKAPECGSGV PEVAGGSCPCLLLCLPRHQAVP TQGP GTYSPCTSHQPHIFRPAA PHHLG LLQNP HNAASCIQCLYP AGVATTMPRRKAEGDAEGD/K AKVKDEPQRRPAKLSAKPAPPN PEAKPKNAPGVTL SLRGTATRF

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23704	54072	A	23839	201	1412	LWKSRLTFKLAMSRVPSPPPA EMSSGPVAESWCYTQIKVVKF SYMWDPSITLAFCREEMGIEVI KSSTFSSGANDKLKWCLRVNP KGLDEESKDYLVTFTCYLVSC PKSEVRANFKFSILNAKGEETK AMESQRIAYRFVQGDWGFKK FIRDFLLDEANGLLPDDKLT FCEVSVVQDSVNISGQNTMNM VKVPECRLADELRGLWENS\RF TDCCLCVAGHEFQAHKAILAA RSPVFSAMFEHEMESKKNPSL KSMDVAEPEVFKEIMMCFIYTG KAPNLTKMA\NDLLAAADKYA L\ERLKMVEDALCSNPV/SVEN AAEILIL\ADLH\SADQLKTQAV DFINYHA\GDVLETSGWKSML SHP/HNLVAEAYRSLASKQCPF LGTPTQNALKQSLKILLCC
23705	54073	A	23840	1	575	FRHRKIIY*NLLKQEDSINVT TSIRASVDILIPDPPPKDDEMDT DKQEKKEVPKCGFLPGNEKVL SLLAMVKPEVWTLKECIVVIT WQHLPKIEDGNDFGVAIQEK VLERVNAVKTKEAFQTTIS/K MDYRALVHERDEAAYGELRA MVLDLRAFYAELYHISSNLEKI VNPKGEEKPLMYPTRD
23706	54074	A	23841	1	1092	
23707	54075	A	23842	130	397	EGVHSQVNLFPKIGNQTHVPAS HGTDSALPPTLQMDYRALVHE PD*AAYGELRAMVLDLRAFYA ELYHISSNLEKIVNPKGEEKPF
23708	54076	A	23843	20	334	VRLPGSTHAGDRSSMAKPCG VRLSGEARIQVEVLRQNLQEA VEEFLYRFLPQKIIYLNQLQEDS LNVADLTSLRAPLDMPIPDPPP KDDMETDEQEKKEGK

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23709	54077	A	23844	1	898	MKQKVAAEAGRGQILQAKVLP SGTLSRLAEALFGVQTYDQDA YGFLTPSAQSMKVFCCLWKL CKQLEGDVAQGLAIDGDVKKH SGLEWQVETIQNLVDSYMAIV NKNMQDLMPKTIHLMINNTKE FIFSELLANLYSRGEQNTLMGE SAEQAQGRNEMRRMHVLR APSIIGDIKTTIVSTPTGSPKSSPT TQCRLPAVPPARPGLRSPAPGPL PAASTLGEAPVVPSTPGASPDPL GPPPIQVPSRPSRGPQPQDRMPC GLAGDLTVGFLEPTLQAIIRWS LLLRPPANSPEQS
23710	54078	A	23845	99	429	FSDAAAVARQPSFGKALGAPQP ADTQPTSPMPRCPPGGSETPK KAAGKDKSSDK\KNKTKKQMK AEKGGKEKQAEVADQETKDL AENGDTENKESPASDEATEKDT KSD
23711	54079	A	23846	1	390	TWMFIAAVFRIASTWKQPRYFS VGKQDQKRTSRKLQQTCSRGA *WLEGKLTNRKE*HQYQRKGH PRKNTIQRSPTLKTKANIILNGQ KLEAFPLKTGTRQRCPLSPLLNF MVLEVLARSIRQEKEIKVFK
23712	54080	A	23847	522	733	ASAADTQANRVWSGPP/RKLQ QTCS*GS*LLQGKLTNRKDIHT KTPSVHHHHQRPKTLNQQRSK ETKKAIT
23713	54081	A	23848	46	330	
23714	54082	A	23849	1	873	MAEKKDPTKEPEKKHLLAWM NKLLYELDPKYKNSNTDGSA VVHKIIIACDKPVSPPPSAMIGSF PRPSSEADAGAMLCVQPARTKI LGILGLKATSLQYLRHLTGKPL LPKIDESTKMGRNQPKKAENSK NQNAASSPPKDHNSPVRQNR MQNEFDELTEVGFRDRSSKR NSVVIKALPRHLINQGRSQEWR LGIGARDSPKTSGRRGKSPAGP NRTTVPEDQA/GSRPRPIPTRQ ADPRTPPPTRSEKE/AQLSLATD QMCPSLAPLIK*PQES**WKQRI SI*MEHL
23715	54083	A	23850	1075	1350	AIITANVFKFVSIDRGLVCNMEL EGSNCFIDVCSWTSEMKS KGTS RR*KIT*GNSSGSLPRDTQRSGH RNSSLCCERSKYGGSRVDIRRK VF

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23716	54084	A	23851	1	956	MEVLARVFRQEKEMKGIHIGK EEHKLFLFADNMTLCLEKTKDS VKKLVEQPSSFGSVDWLCCLSSC SGSTHTPRPADVSPGSLPGPGQ TFGTREPPQAVSTKEASSSNLH APERTVAGLTFTTEQVRALEGV FRHHQYLGPLERNWLAREMQL SEVQIKTWQNRMRMKHKRQM QDSQLNGPLSGSLHGPPAFHSP SSGLANGLQLLCPWAPLPGS/L WLPLGSFWGLRQMDQEALASS WASCCGQPLAYHPPRPGSGAH KLGPALSTGPRGLCALPETGDA FEETPPTTCLPHKRSVQIASDAY PEDSAVLFTSWRHLS
23717	54085	A	23852	1	846	MEAFDANYTFQSGPSAAGLLV FAGGPLQALCAWVSAVEAAEQ WILQPSSFGSVDWLCCLSSCSGST HTPRPADVSPGSLPGPGQTFGT REPPQAVSTKEASSSNLHAPER TVAGLTFTTEQVRALEGVFRHH QYLGPLERNWLAREMQLSEVQ IKTWQNRMRMKHKRQMQDSQ LNGPLMGSPGAPWLSTHHFLA LAKGLQ\LLCPWA\PLPGSPGCP LGSFWGTP\QMDQEALASSWA GCCG\QPLAYHPPRPGSGIDLK GTQLSLRLFQDISSTRGDHRS
23718	54086	A	23853	3	239	
23719	54087	A	23854	10	1154	RRAGFGGVASGAMGTPPGLQ TDCEALLSRFQETDSVRFEDFT ELWRNMKFGTIFCGRMRNLEK NMFTKEALALAWRYFLPPYTF QIRVGALYLLYGLYNTQLCQPK QKIRVALKDWDVCLKFQQDLV NAQHFDAAAYIFRKLRLDRAHFH TAMPKLLSYRMKKKIHRAEVT EEFKDPSDRVMKLITSDVLEEM LNVHDHYQNMKHVISVDKSKP DKALSLIKDDFFDNKINIVLEHQ QWHKDRKNPSLKSKTNDGEEK MEGNSQETERCERAEALAKIKS KA\FSVVIQASKSRRHRQVKLD SSPLDSASGQGVKATRKKEK KERLKPAGRKMSLRNKGNVQN IHKEDKPLSLMPVITEEEENES LSGTEFTASKRRQH

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23720	54088	A	23855	16	447	VNCDKANCSTTCFNGGTCFYP GKCICPPGLEGEQCEISKCPQPC RNGGKCIGKSKSVCEPGCGAH GTCHPEPNKCQCQEGWHGRHCN KRYEASLIHALRPAAGAQLRQH TPSLKKAERGDPPESMYIWVE LPTSGNVLSYTKFI
23721	54089	B	23856	103	1989	
23722	54090	A	23857	3	1295	SGRGVSRHMADYLISGGTGYV PEDGLTAQQLFTGAAARDRLT YNNFLILPGFIDFIADKVDLTSA LTWKITLKMPLISSPMDAVTEA DMAIAMALMGIGIFIIHHCTPE FQANEVRKVKKFERGFIMDPV VLSPSHTVG\DVLEGKMRHGFS G\IPITETGTMGSKLDSHKQLLC GAAVGTREDDKYRLDLLTQVG VDVIVLDSLQGNLSYQMAMVY YIKQKYPHLQVIGGNMVTAAQ AKNLIDAGVEGLHVGMGSSIC ITQEVMAYSWPQGTAVYKVAE YARHFDHGEHGKALALGASTV MMGSLLAATTEVPSKYFFSDG VWLKKYRGMGSLDALEKSSGS QKQYFMEGDKLKIAQGVSSSIQ DKGSIQKFVSYLIAGIQHGCQD TGVCNLSVLLSMYSGERKFE KWTMLAQIKGGVQGLHSYKK
23723	54091	A	23858	770	1008	LAPSPCVRSKGRKESPDSP/RPL WLRPIAPALGPSGRRGLAPDSR LNPHRSLLGTGNYDVNVIMAA LQGLGLAAVWWDRRR

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23724	54092	A	23859	1	1489	MTRWSSYLLGWTTFLLYSYESS GGMHEECVFPFTYKGSVYFTCT HIHSLSPWCATRAVYNGQWKY CQSEDYPRCIFPFIYRGKAYNSC ISQGSFLGSLWCSVTSVFDEKQ QWKFCETNEYGGNSLRKPCIFP SIYRNNVSDCMEDESNNKLWC PTTENMDKD GKWSFCADTSNL GMGVGPTPRHHRRASTRHSRPP PADPDGGERPRTADDRQDDA TEDDGT RCRGRQTRTQATNAN ANHKKSNRTKPPPRHKPNKAK RHTKKETPQNT/CGTQDKNPDS GRPKLFRRACITSTGTRGELWT RSREHPAK\QGRRS GKQRLRPW DRMLSPDWHRAQRIAQVWKPE QEDGLSIGFGDQPGPHSDTSSR QQVRRSKATEMHVGGRVDFD DFVELMTPKLLAETAGMIGVQ EMRDAFKEFD TN GDGEITLVEL QQAMQRL LGERLTPREISEVVR EADVNGDGT VDFEGDIDGAWG RHGTQGPHWPWGLGDVRGEPL
23725	54093	A	23860	283	490	GDIWMGTQPKPYHS\PPGPSN\ PCPPHFKNQSMPSPKSPPKVFNS FPALTQKVHTSKVSSETRQVPS HL
23726	54094	C	23861	82	222	
23727	54095	A	23862	27	454	VDGRIAGEITRRGSRARPRPGPQ CPPGRPGTAMIKAILFNNHGKP RLSKFYQPYSED TQQIIRETFH LVSKRDENV CNFLEGG/LVFVE TLDKCFENVCELDLIFHV D K V H NILAEMVMGGMVLETNMNEIV TQIDAQNKL
23728	54096	A	23863	1	403	RGSRARPRPGPQCPPGRPGTAM IKAILFNNHGKPRLSKFYQPY EDTQQQIFRETF/HLGSKKEEG WNFLKGG LLIGSDNKLDYRH YATVYFVF\GGDFSKRELGLFN LIQEFGEPLDKCFEKVWELDLIF
23729	54097	A	23864	215	599	

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23730	54098	A	23865	2	683	GRIAGEITRRGSRARPRPGPQCP PGRPGTAMIKAILIFNNHGKPRL SKFYQPYSED TQQQIIRET FHLV SKRDENV CNFLEGG LLIGGSDN K\LIYRHYAT\LYFVFCVDSSE\ S ELGILD LIQVFV\ETLDKCFGN\ V CEL\DLIFH\VDK\VHNIL\AEMV MGGMVLETNMNEIVTPIDAQN KLEKSEAGLAGAPA\RA\VSAV KNMNLPEIPRNINIG\DISIK\VP
23731	54099	B	23866	94	726	
23732	54100	B	23867	94	1146	
23733	54101	B	23868	1	360	
23734	54102	B	23869	1	1371	
23735	54103	B	23870	1	639	
23736	54104	B	23871	280	2391	
23737	54105	A	23872	3	244	
23738	54106	B	23873	103	285	
23739	54107	A	23874	70	378	MPLRILLMHGEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEILQIKTK HYTTKEQEKEEQGIKLVQGSNN D/QEQEKKGEYKNTGEKNSMK
23740	54108	A	23875	5	156	RKKGGG/EREEEGEGEEEEEEEE EEEEEEEEEEEEEEEEEEEEVV L LTPGTGAEDFKKH

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23741	54109	A	23876	1	1808	MEVLSIDNLAGHKVFYQKESH WKQQKQDLMMSGKRLSAANPLP ALLLPVLWTTGQAPSPGPGGDP ILQLWDDAQQMAGSPRTKKKG CTRNSQAARLSFQSRGGQGS LTKMIFEQRFGGGKGESRKDAIA IIVVDIVTLQPCRTVEWVTRPF RSLQGHFQGGRLRRQMMVME GVWVLSCAMDLTSPRDCLPFC VSLPVLLLSAPLCSCSTAGGSPV TSPHHPFVEGGLGRVRRRCYINE PVVTTLGWESVCWVSFWLLLR IRYSTSGQAACHAESQELNPRG FGCLGHRNVTWVKCLLPALQP EGSVPFLELLEPFIFASASKTFV AANLVTWVACFLLVQAAFQLS EYRQGVGIPVADRTGDAPTLGL SYEADVAEGHGFLLDQESVIQII PEPLPQFYLCLLDAELTGVQGE PALPSMQIFSSPEAATGVHNDR GAEHFPVSRQPSAELGLRPMQA SQERKINFPGPSGFPKQNK TLSRREKKEEEEKEEEEEEE E/GEEEEKEEEEEKEEEEEEE E/GEEEEEEEEEEEEEEEEEE E/KWLYQYDPEDKAQSKQWLSR GGSGPVKAKADWWRAKEI HSLQPRQVIPGIPSM
23742	54110	A	23877	459	636	IPGGSNGLEAEGPPPPLPVA AVLA/AGSGGLAVASCAFTICALR WPGVPCSRVPIWTPS
23743	54111	C	23878	183	254	
23744	54112	A	23879	103	335	LGSGDLPWEINPLSSCSLLHEK DPPTTSGPQTDRPKEHLINFKSG ACYTCRKSGH*AKECLQPGIPIK PHLICVGP
23745	54113	A	23880	159	306	LGSGNLP*EINPLSSCSLFREEDP PTTSGPQTNQPEHLTNFKSAA ED
23746	54114	C	23881	80	106	
23747	54115	A	23882	317	427	
23748	54116	A	23883	353	511	
23749	54117	B	23884	1	320	
23750	54118	A	23885	1	624	
23751	54119	A	23886	224	355	
23752	54120	A	23887	872	1003	
23753	54121	A	23888	1	603	
23754	54122	A	23889	2	214	
23755	54123	A	23890	459	601	DVDRHVRGSNFHHNEIRSLAAT PRAPGTLAQ/GLTDSFPDLLGLA AED

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23756	54124	A	23891	2	267	QWDGWGARKGMEWEDDLPLE FGRPTASLLSDRPQPNSSRGSDV PFL\PPSLPCHSSACLAATPRAPG TLAQGSLTDSFPDLLGLAAED
23757	54125	A	23892	72	299	
23758	54126	B	23893	1	1470	
23759	54127	A	23894	134	1276	
23760	54128	A	23895	2	847	PPPPRVLRTGGGASLTAQAPGT PRRPQEGEPVTPGRSLGLRSSCQ ASVSLLLPVIVACASLEPGRGR AFRDEGA WNTRVSAAVISQA QLSSILVNSRRLSFSAHHTAFG TVALGEYAFRMFRLSARLFG\E VTRPTNS/RLMKVVKLFSE/IW PLAKKKETYDWYPNHHTY/AL ELMAGRLRFLGTLTEDEAFRDF MGMEAKTDLKEAFVGKGGNP KEREKGKRAAKKGNLSCLVPSR RGDFLSSVAERRKLHLLSFPHIG GDVIFLNGSLFGRNTSHLLGEI
23761	54129	A	23898	3	1224	MRRNKPRQRGVREARPAGGAG PGWRGARC SGAGEGGGGERRG SPPAALALAPASGPRRNFPDA RCLIIYQQIHQGAFLLAGSASLS AVTGVPGEARFTEDYCPEEK MFGFHKPKMYRSIEGC\CISGA KSSSRFTDSKRYEK\DFQ\SCFG LHETRSGDI\CNACVLLVKRWK KLPAGSKK\NWNHVVDARAGP S\LKTTTFEPK\KVKTLSG\NRIK\S TQISKLQKEFK\RSNSDAHSTTS SASPAQSPCYSNQSDGSDTEM ASGSNRTPVFSFLDLTYWKRQK ICCGIHYKGRFGEVLIDTHLFKP CCSNKKAAAEKP EEGPEPLPIS TQEWTECPDLSLVVSWRPLSS LPAGCSLHGLAADWTTDMITV TTSKCREPSCQ QEGSFQRRKAF PKRLPKMAEVQVLVL
23762	54130	A	23900	69	355	
23763	54131	A	23901	316	830	VLSQTLHPPMTLQLSRYSRGW GLSSDRPRGAKAKVPSCFGTAP R/GPEAAPRLLAHHLVPAGRGS/ ARAPAPGWRLGSPGAGRKGR DFRLPASGLAVSGEWDPIPWGY VGEVGGCSCQWFSPGVQQKRR RRKVWLGPQDLPGPSALADK GPALAKADGQRVNVASVGLQP

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23764	54132	A	23902	1	1044	MSYKVTQEISKELRWISAVLVT WDLRGETGTRVCIAMGVSRMQ YSIMAKIVGSGNNLELNPAADK LDNLGAQCGLASVKVSARAAP PFAPATLVALLEARAAELPLPPP PGVSLRCVEAPDVRGRGRGGG EGSGVTRLLPPPPPSGASFLQR GRPVTPALFQAGWGAAADRP PADLAGGAGGRSGRRMLPRS PGAALDRSALEDGIVEGYGPL GEPEEGSRSSFLESKVAFNYCN KVAPLDFGNEAVEQCHTMSDR KAVIKNADMSEDMQQDAVDC AITQAMEKYNIEKDIAAYIKKEF DKKYNPTWHCIVGRNFVGSYV PHTEDKHFIYFYLGQVAILLFLK
23765	54133	A	23903	33	427	
23766	54134	A	23904	72	777	EWKQAGEGGGGQRRGSPPAVL ALAPASCPRREMSYLPNPPGSI LICWLGVSLSHSRAGGGGSAIY G\SYYPEEKMFVFHKKPMYRSI EGYCICRAKSSSSRFTDSKRYEK DFQSCFGLHETRSGDICNACVL LVKRWKKLPAGSKKKTGIMCN QSDDGSDTEMASGSNRTPVFSF LDLTYWKRQKICCGINYKGRF GEVLIDTHPFKPCCSNKKA ^{AAE} KPEEQGPEPLISTQEW
23767	54135	A	23905	234	989	PKTSDQAYYCPEEKMFGFHKP KMY\RSIEGC\CISGAKSSSSRFT DSKRYEK\DFQSCFGLHETR\SG D\CNACVLLVKRWKKLPAGSK K\NWNHVVDARAGPSLKTTLK PKKVKT\SGNRIK\STQISKLQK \ENFKR\HNSDAHSTHPQVPS\A QSPLFTVNQFRWTGSDTGVG FPGSNRNHPVFSFLDL\TYWKR QKICCGIMYKGRFGEVLIDTHLF KPCCSNKKA\AAEKPEEQGPEP LPISTQEWVTEVFM
23768	54136	A	23906	3	1059	

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23769	54137	A	23907	1	1697	MRPCALCWRSVTAAPERAVL ESRGGAPDTPRRLHSFTQTRSL PQAHAGPHTRLHPRQGHAMR GGGRVTDTRRHIPNADVPRYK LTCTGGVTTFVALYDYESRTET DLSFKKGERLQIVNNTKGDW WLAHSLSTGQTGYIPSNYVAPS DSIQAEWYFGKITRRESERLLL NAENPRGTFLVRESETTKGAYC LSVSDFDNAKGLNVKHYKIRK LDSGGFYITSRTQFNSLQQLVA YYSMSCPPFSAAGWYGGGCP EEPQKHADGLCHRLTTVCPTSK PQTQGLAKDAWEIPRESLRLEV KLGQCGFGEVWMGTWNGTTR VAIKTLKPGTMSPEAFLQEAQV MKKLRHEKLVQLYAVVSEEP YIVTEYMSKGSLLDFLKGETGK YLRLPQLVDMAAQIASGMAYV ERMNYVHRDLRAANILVGENL VCKVADFGLARLIEDNEYTAR QGAKFPIKWTAPAAALYGRFTI KSDVWSFGILLTELTKGRVPY PGMVNREVLDQVERGYRMPCP PECPESLHDLMCQCWRKEPEER PTFEYLQAFLEDYFTSTEPQYQP
23770	54138	A	23908	1	736	MDPGAALQRRAGGGGGLGAG SPALSGGQRRRKQPPRPA LQVHHGSRGVGKTSMLERFTDD TFCEACKSTVGVDFFIKTVELR GKKIRLQIWDTAGQERFSSITSA YYRSAKGMILVYDITKKETFD LPKWMKMIDKYA\SEDADLLL VGNKLDCEITDREITRQQGEKFA QQITGMRFCESAKDNFNVDEI FLKLVDDILKKMPLDILRNELS NSILSLQPEPEIPPELPPRPHVR
23771	54139	B	23909	84	441	
23772	54140	A	23910	6	254	
23773	54141	A	23911	1	230	
23774	54142	A	23912	3	187	
23775	54143	A	23913	3	143	
23776	54144	A	23914	3	481	
23777	54145	A	23915	1	711	
23778	54146	A	23916	55	381	

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23779	54147	A	23917	240	875	GLSAESTPTSIMSMTLGYWDIR GLAHAIRLLLEYTDSSYEKKY TMGDAPDYDRSQWLNEKFKL GLADFPNLPYLIDGAHKMHPEA TPFLCY\ARKHNLLGETGRRE KISSWDIL\ENQAMDVSNQLAR VCYSPDFEKLKPEYLEELPTMM QHFSQFLGKRPFVVGDKITFVD FLAYDVLDLHRIFEPNCLDAFP NLKDFISRFVSCGIM
23780	54148	A	23918	64	774	CLSAESAPTSTMPMTLGYWDIR GLAHAIRLLLEYTD\SSYEKKY TMGDAP\DYDRSQWLNEKFKL GLADFPNLPYLIDGAHKITQSNA ILRY\ARK\HNLCGGDRRREKIS CWDILENQVM\DNHMELVRLC YDPDFEKLKPKYLEELPEKLL YSEFLGKRPCFLG\DKITFVDFL VY\DVLETK\QVFEPK\CLDAFQ NLKDFISRFEG\LEKISAYMKSS\ RFL\QELVFSKMAVWGNK
23781	54149	A	23919	163	317	LSPNNYYRKLKPQVKLE*RYHR LALFSFPTKLTPEKVSLLCCRFL EMGYIF
23782	54150	A	23920	62	255	VRLTAQKSLGPLTSTHSLWGSA \RARHREPVGSVCGCDPCEQLL LLVSQLRAPGVDSAAAGRPV
23783	54151	A	23921	173	467	KSRFCFFGVVLKLPKKLHIR*WI GATL*NQP*TIFQTDGDCSHQSL GPLPACDLWDQLHLRSKQGG VCGCDPCEQLLLLVSQLRAPGV DSAAAGRPV
23784	54152	A	23922	35	548	PRSCPSLSPGLSCLLQ/RLVNYQI SIKCSNQFKLEVCLLNAENKVV DNQAGTQGQLPAVGQARWGS GCRGAHTWPLAVIGAADCTG QRGWEGV*AFPGLTEPVSSLFC GQDGD/CSPHSM*VLSHVVLWL LNGLCSLVLSVCGCDPCEQL LLLVSQLRAPGVDSAAAGHPV
23785	54153	A	23923	1	599	MSPAGLVNYQISVKCSNQFKLE VCLLNAENKVV DNQAGTQGQL KGRPDGAQAV/VGAHTWRFGC RRCG*LHRSHWGL*LLHTPCGR PHCARHREPVAHSLCSRAISGS EPHFWQCSVQ*PQLCVPGRVAT PLGELDSGDGDCSHQSLGPLPA CDLWDQLHLRSRQGGSVCGCD PCEQLLLLVSQLRAPGVDSAAA GRP
23786	54154	A	23924	290	528	

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23787	54155	A	23925	274	571	KSRFCFFGVVLKLPKCLHIR*WIGATL*NQP*TIFQTDGDCSHQSLGPLACDLWDQLHLHSRQGGSVCGCDPCEQLLL\VSQQLQAPAI DSAAAGRPV
23788	54156	B	23926	204	410	
23789	54157	A	23927	29	330	YLGVELVKSAYPFFQIHLSFPSCMWLCGLFLLFYIDFLTLMCGDKPLICKKHQLSASTCA/CTIC*GALTLLMEIEQGPCDLSCASREVSTARSLAELFSGP
23790	54158	A	23928	259	699	ETSHQVMDRSNPVKPALDYFLNRLVNYQISVKCSNQFKLEVCLLNAENKVVDNQAGTQGQKVLGANLWWPYLMHEHPAYLYSWEDGDCSHQSLGPLACDLWDQLHLRSRQGGSVCGCDPCEQLLLVSQQLRAPG\VDSAAAGHPV
23791	54159	A	23929	245	695	
23792	54160	A	23930	302	745	ETSHQVMDRSNPVKPALDYFSNRLVNYQISVKCSNQFKLEVCLLNAENKVVDNQAGTQGQKVLGANLWWPYLMHEHPAYLYSWEDGDCFTPKALDPLACDLWDQLHLRSRQGGSVCGCDPCEQLLLLVSQQLRAPGVDSAAAGRPV
23793	54161	A	23931	2	293	VFCHTDLRKNLTVDEGTMKVEVLPALTDNYMYLVIDDETKEAAIVDPVQPQKV\VDAARKHG\VKLT\TVLTTHHHWDHAGGNEKLVKLESADLGIRLF
23794	54162	A	23932	1	441	
23795	54163	A	23933	1	630	
23796	54164	A	23934	3	265	
23797	54165	A	23935	3	1062	SAVQPGPVMVVGRGCSRRSLAALGAACARRGLGPALLGVFCHTDLRKNLTVDEGTMKVEVLPALTDNYMYLVIDDETKEAAIVDPVQPQKV\VDAARKHG\VKLT\TVLTTHHHWDHAGGNEKLVKLESGLKVYGGDDRIGALTHKITHLSTLQVGSLNVKCLATP\CHTSGHICYFVSKLGG\SEP\VVFTGDTLFAAGCGEVL\MKGLRDEMCKALLEVLGRLPPDTVGSASLRAGRVYCG\HEYTIKQTSKFAR\HVGNA\AI\REK\LPWA\KEKYSIGEP TVPST\LA\E\FTYNP\FIK\VREERRCKQH\A\GETDPVTTMRPVRRKDKQ\FK\MPRDLRPPHLQQDLGKALLDRLF

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23798	54166	A	23936	107	750	SHLWSPVSEPLQACSFC/VIRDK YRYFACLMRARSEEHTNEKDM MKAIRLLKEAEEEFWYHQHPQ PCIFPDSPRGTSYVTHECYK VPE WCLDDWHPSEKAMYPDYFAK RKQWKLLRRESWKREVKQLQ EETPPAGKEECKLHEGMNYVV LTCIPGAIKQYLACSRYSKTPGP RDSCWEVQSDNQCWWLDSG AHGLVTSFKGVMMTVEATTM AAVF
23799	54167	A	23937	3	718	PASTISCSVTRSRAVSRLSARP GKVSAMASLASGPYLTHQOK VLRLYKRALRHLESWCVQRDK YRYFACLMRARFEEHKNEQDM AKATQLLKEAEEEFWYRQHPQ PYIFPDSPPWGHPPYERYDCYK VPEWCLDDWHPSEKAMYPD YFAKREQWKKLRRESWEREVL KQLQEETPPGGSF*LEALPPGP KRKVILPPLWWYIVTRPRERP MLERERPHLSCLQVKYVTEHG
23800	54168	A	23938	269	488	TDGVIFIGLSWSPRRCGLGIQRD AERIFFALDQASCFTIHPHIDA AETPRGLTMHLCCRRCQRGQSQ AEKLP
23801	54169	A	23939	1	1560	MVHLGAPVMALNLQGKHLCD STASSLLPRRRESNSDDTARED ARQKRPANTDMRTQELQTRET GQGTARETEVATPLSGPSAGDS PPAASEMSCGQLVLALLLFFL LVWNTGTKSGSGRVARLAQLA HDCDGGALGLCYAVLDQRSV VQATPQAPKPGPVQPLTVQGL QPVHVAQESSGNEITARRQSAR SRPRGDRTPSRRVTRRPKHAP ERAPIQQGNIVTVRAPTARKKW RPAVGTPTGAHPVCTAKGTGG RPTPTQAHTRYTERDPIRNSAEL TGSRPCTGRERSGVEACKAAV HNLLAQTGSSGLIINYPLDDIQ DAIAVEAACTNVPALFLDVSDQ TPINSIIFSHEDDVWRTPLVAPT NLNTRSSQPARHHRAGAVRRH HMTVARSAHAHLRRHAKPQ GRERIKPSGAREGSEPLGGESGI RTPRGRERDPNPSGAKAGSEPG RIPETLPRCKGETEAKCWARGN FHTAQGSWPRGGRSRWEPLEA PALSQQAHHGELPLAAARSHR
23802	54170	B	23940	98	229	

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23803	54171	A	23941	1	256	
23804	54172	A	23942	289	433	VLWSCAAEDFDWL VYRPIGSA LSCRLIGPWAIGMWETGFP*VL WSCAAEDFDWL VYRPIGSA LSC RLIGPWAIGMWETGFLLSSVS LS
23805	54173	A	23943	450	1260	LCACVVGGEKRS GPRIGCAGA GKDPFWRAVGVAQKAAAVVA CGAASPYRNRADVSVSDHSQS RGP GGLSLSGGTVCMDMGK KTK RTADSSSSSEDEEEYVVEKVLDR RVVKGQVEYLLKWKGFSEHN TWEPEKNLDCPELISEFMKKY KKMKEGGNNKVREKSESSKR KSNFSDSAEDIKCKKKREQSND IARGFERGLEPEKIIGATDSCGD LMFLMKWKDTDEADLV LAKE ANVKCPQIVIAFYEERLTWHAF PEDAENKEKETAKS
23806	54174	A	23944	3	267	AMVGGGGVGGG LLENANPLIY QRSGERPVTAGEEDEQVPDSID AREIFDLIRS*AWPLTPQPAYW YGPSSCQGCYRCFLESLTMRN
23807	54175	A	23945	1	942	
23808	54176	A	23946	3	470	AMVGGGGVGGG LLENANPLIY QRSGERPVTAGEEDEQVPDSID AREIFDIRRCWARAGSGGLRW GEQ*YRAAGGAASQGGVPGRG F*VGKGAESLFLHFPQLIRFLN DPAEHS LTLEELNVVEQVRVQV SDPESTVA VAFTPTISHWSMGT
23809	54177	A	23947	2	604	ARSHRISGGGSAMVGGGGVGG G LLENANPLIYQRFGE RPTAG EEDEQVPDSIDAREVFDLIRSH QMTPEHP L TLEELNVVEQVR VQVSDP ESTVA VGFPKPTHSGT CRHGPPLIGLSIKVKILLRSLPS AFSRWDVAHLLPGDPLPQEHA VEQATLQIKEAGWATALGRTH HLLVVNQCLSSPAPGTWAFV
23810	54178	A	23948	1	1002	

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23811	54179	A	23949	89	2587	STSRDRRLSKRSRTTMAAQPRG GDYRGSFLLSILLGTPWEAWAG RILYSVSEETDKGSFVGDIKDL GLEPRELAERGVRIISRGRTQLF ALNQRSGSLVTAGRIDREEICA QSARCLVNFILMEDKMNLYPI DVEIIDINDNVPRFLTTEEINVKI MENTAPGVRFPPLSEAGDPDVG TNSLQSYQLSPNRHFSLAVQSG DDETKYPELVLERVLDREEERV HHLVLTASDGGDPPRSSTAHIQ VTVDVNDHTPVFSLPQYQVT VPENVVPVGTLLTVHAIDLDEG VNGEVTYSFRKITPKLPKMFHL NSLTGEISTLEGLDYEETAFYE MEVQAQDGPGLTKAKVLITV LDVNDNAPEVTMTSLSSSIPED TPLGTVIALFYQLQDRDSGKNGE VTCTIPENLPFKLEKSIDNYRL K\TTKNLDRETLNITLTKATD GGTPPLSRETHIFMQVADTNDN PPTFPHSSYSVYIAENNPRGASI FLVTAQDHDSEDNAQITYSLAE DTIQGAPVSSYVSINSDTGVLY ALQSFQDYEQLRELQLRVTAHDS GDPPLSSNMSLSLFVLDQNDNP PEILYPALPTDGSTGMELAPRSA EPGYLVTKVVAVDKDSGQNA WLSYLLLKASEPGLFAVGLYTG EVRTARALLDRDALKQSLVVA VQDHGQPPLSATVTLTVAVAD SIPEVLADLGSLEPSDGPYNYDL
23812	54180	B	23950	165	335	
23813	54181	A	23951	217	859	GSAMAQQRALPQSKETLLQSY NKRLKDDIKSIMDNFTEIHKTA IEDETQVSRATQGEQDNYEMH VRAANIVRAGESLMKLVSCLK QFLILNDFPSVNEAIDQRNQQL RTLQEECDRKLITLRDEISIDLY ELEEEYYSSSPGSLVSQQLSEQ QLLSSAWTAWPKVTLSSLAPGP QYSVNGPAAIIAHPGTCASAGIS SSLLPEPVLLVPVF
23814	54182	A	23952	1	1263	

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23815	54183	A	23953	70	2530	PGVSRLVSKLRRARGMSGAG ELGRAERLPELFLFLTLFCPAL CEQIRYRIPEEMPKGSSVGNLA TDLGFSVQELPTRKLRVSSEKP YFTVSAESAELLVSSRLYREEIC GKKPACALEFEAVAENPLNFY HVNVEIEDINDHTPKFTQNSFEL QISESAQPGTRFILGSAHDADIG SNTLQNYQLSPSDHFSLINKEKS DGSKYPEMVLKTPLDREKQKS YHLLTALDFGAPPLSSTAQIH VLVTDANDNAPVFSQDVYRVS LSENVYPGTTVLQVTATDQDE GVNAEITFSFSEASQITQFDLNS NTGEITVLNTLDFEEVKEYSIVL EARDGGGMIAQCTVEVEVIDE NDNAPEVIFQSLPNLIMEDAEL GTHIALLKVRDKDSRHNGEVT CKLEGDVPFKILTSSRNTRYKLV TDAVLDRQNPEYNITVTATDR GKPPLSSSSITLHIGDVNDNAP VFSQSSYIVHVAENNPPGASISQ VRASDPDLGPNGQVSYCIMAS DLEQRELSSYVSISAESGVVFA QRAFDHEQLRAFELTLQARDQ GSPALSANVSLRVLVDDRNDN APRVLYPALGPDGSALFDMVP HAAEPGYLVTKVVAVDADSGH NAWLSYHVLQASEPGLFSLGLR TGEVRTARALGDRDAVRQRLL VAVRDGGQPPLSATATLHLVF ADSLQEVLPDITDRPDPSDLQA
23816	54184	C	23954	75	149	
23817	54185	A	23955	442	618	CQRLRSWVSQPFSSFFPSFPTF* NILCLFVYLEVEFPSCCPGWSN NWAKSSGKALEAN
23818	54186	A	23956	1	245	

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23819	54187	A	23957	30	1079	APCASFLTPLAAASVGK VWLG LRGAAPMASVLSYESLVHAVA GAVGSVTAMTVVFPLDTASIF DFSVDFFKRKSKTTHMVVLEIHK EEGLLAPYRGWFPVISSLCCSNF VYFYTFNSLKALWVKGQHSTT GKDLVVG FVAGVVNVLLTTPL WVVNTRLKLQGAQFRNEDIVP TNYKGIIDAFHQIIRDEGISALW NGTFPSLLL VFNPAIQFMFYEGL KRQLLTFAFQLSSLDVFIIGAVA KAIATTVTYPLQTVPLFPQFGR HRLNPENRTLGLSLRNILYLLLQI FRTPSEREPFYTSVTL SVLSSVA YPM MPLSNITSAYRIGVLEKGG GSGKSDNSDDDDDDND DGGV
23820	54188	A	23958	1375	2451	VPRVPFAINVLT HSRQRYRRNL RFYADDPTIRV/GGPTYHWVRE\ AEEERVVDNRMHDFCELRTA AGHPVEGGRPLVIKGITHPAET ALQRFKFLMYQVVASDL DGT LSPDHTLSPYAKETLKL LTARGI NFVFATGRHHVDVGQIRDNLEI KSYMITSNGARVHDL DGNLIFA HNLDRDIASDLFGVVNDNPD IIT NVYRDDEWFMNRHRPEEMRFF KEAVFQYALYEPGLLEPEGETK ALLTPGKLKNFLVEKMRTLGT AACPPYHIAFVIGGTS AETNLKT VKLASAHYYDELPT EGNEHGQ GSAMSSWNRNCWKRPRNSVLA RSLAVNTSRTTFALS VCHVTAH PARSAWASPVR
23821	54189	B	23959	1	1386	
23822	54190	A	23960	1375	1609	VPRVPFAINVLT HSRQRYRRNL RFYADDPTIRV/GGPTYHWVRE SIEEERVVDNRMHDFCELRTA AGHPVEGGRPLVIK
23823	54191	A	23961	433	741	
23824	54192	A	23962	12	224	
23825	54193	A	23963	3	2053	

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23826	54194	A	23964	1	2408	MGGADIAGPRREHNAKHPTVG LGSAAQTTCLPGPKQKGDPTRH QPVDKRNVDVGPRQHFWCWRV EIHKEKRMKTGPLNESELEWLD DILTKYNTDHAILDVAELDGLL TAVLSSPQEIEPEQWLVAVWG GADYVPRWASEKEMTRFMNL AFQHMADTAERLNEFPEQFEPL FGLREVDGSELTIVVPPGGRTA TNALSCGSLFGEETSPRGPSADS TSQSIGGGSPHDCAKGIALVAA NGGDIRDYEGVDRSAKPQLPMI AINTTAGTASEMTRFCITDEAR HIKMAIVDKHVTPLLSVNDSSL MIGMPKSLTAATGMDALTHAI EAYVSIATPITDACALKAVTM IAGISTFFASSRMALMQASAPSA SFLPVTFTPIAAAQSRRAAAT GYRDRWLCHGDVLLQICANTQ DTVIHALRDIKHNSCPDDCSVQ HDAVIDDGCDFIDYLGGETVV ALNTPRADDYHPVMVLCAKTD KAHRNVIHTSKLCFITLTPEISQ RSHGKSSKRVFSCFPVFLLLKH RRIVAQKYAELAYDLFHLGFD VLIIDHRGQGRSGRLLADPHLG HVNRFNDYVDDLAAFWQQEV QPGPWRKRYILAHSMGGAISTL FLQRHPGVCDIAIALTAPMFGIV IRMPSFMARQILNWAEAHPRFR DGYAIGTGRWRALPFAINVLT SRQRYRRNLRFYADDPTIRVGG
23827	54195	B	23965	1	3357	
23828	54196	A	23966	14682	14931	EIGPGPRPLPSPLP*ATSTSVLAA SGRPERTRWAGIKIVLEDIFTL WRQVETKVRKIRKMKVTTKV NRHDKINGKRKTAKEQSPLLQE SLFATGDVSHNLLRALDVGLLA NLSALAELDISNNKISTLEEGIF ANLFNLSEINLSGNPFECDCGL AWLPRWAEEQQVRV/AAARGS HVCWAWLPGWPASAWHPLAG QWLW*GVCRLPP*QQLRHRGS SVLFSCPRRPA/CSQRPAAPSAS PPARASQPSPSRA

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23829	54197	A	23967	1	714	MVKLSIVLTPRFLSHDQGGQLTK ELQQHVKSVTCPCEYLKRVINT LADHRHRGTDFFGGSPWLLIITV FLRSYKFAISLCTSYLCVSFLKTI FPSQNGHDGSTDVQQRARRSN RRRQEGIKIVLEDIFTLWRQVET KVRACKMKVTTKVNRHDKI NGKRKTAKEHLRKL SMKEREH GEKERQVSEAEENGKLD MKEI HTY/MITPSARKPLCNVRMAA AEHRHSSGLPYWPYLT AETL
23830	54198	A	23968	111	216	ALLFPISWTSTPLGTQQAPQCV* PTPMPMRPVPS
23831	54199	A	23969	1	4710	
23832	54200	A	23970	3544	3723	RSHRSPPRCPPSRAPAPRRSAAA PPRR*PPRAPAAPRPGPP/CMAR PPPARPTAGSRVPPL
23833	54201	A	23971	3	1119	EFGTSHRHRGTDFFGGSPWLLIIT VFLRSYKFAISLCTTYLWVINTL ADHRHRGTDFFGGSPWLLIITVF LRSYKFAISLCTTYLCV SFLKTI FPSQNGHDGSTDVQQRARRSN CRRQEGIKIVLAEDIFTLWRQVE TKVRACKIRKMKVTTKVATRLTK IKERRKTAQDHWKLSMKERE HREEERQVSEAEENGKLD MKEI HTYMEMFQRAQALRRRAEDY YRCKITPSARKPLCNVRMAAA EHRHSSGLPYWPYLT AETLKNR MGHQPPPTQQHSIIDNSLSLKT PPECLLTPLPPSALPSADDNLKT PAECLLYPLPSADDNLKT PPEC LLTPLPSAPPSADDNLKT PPKC VCSLPFHPQRMII SRN
23834	54202	A	23972	1	1149	

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23835	54203	A	23973	93	1165	HRRSAAEAPAAAVMPFFPGKS HKSPADIVKNLKESMAVLEKQ DISDKKAEKATEEVSKNLVAM KEILYGTNEKDPQTEAGAQLAQ ELYNISGLLITLVADLQLIDFEGK KDVAQIFNNILRRQIGTRTPTV EYICTQIQN\LFMLLKGYESP EIALNCGIMLRECIRHEPLGKIIL WSEQFYDFFRYVEMSTFDIASD A\FATFKGLLTRHKLLSAEFLEQ HYDRFFSEYEKLLHSENYVTKR QSLKLLGELLDRHNFTIMTKY ISKPV\NLK\LMMNLLRDKSRNI QFEAFHVFKA\FVANPNKTQPIL DILLKNQAKLIEFLSKFQNDRT DEQFNDEKTYLVKQIRDLKRP AQEA
23836	54204	A	23974	3	158	
23837	54205	A	23975	3	1071	GVRASGRAVPRAVFAGMKRPC EETTSSEDMDETIDVGSENNYS GQSTSSVIRLNSPTTTSQIMAR KKRRGIIEKR\RRDRINNSLSELR RLVPTAFQKQGSAKLEKAEILQ MTVDHLKMLQATGGKGYFD\A HALAMDFMSIGFRECLTEAAR YLSSVEGLDSSDPLRVRLVSHL STCATQREAAAMTSSMAHHHH PLPHHWAAAFHHLPAALLQP NGLHASESTPCRLSTTSEVPPAH GSALLTATFAHADSALRMP\ST GSVAPCVPLLSTSLLSLTSATV\H AAAATATAAAHSFPLSFAGAFP MLPPNAAA\AAAATAISPPLSV SATSSPQQTSSGTNNKPYRPWG TEVGAF

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23838	54206	A	23976	1	1416	MPGNLTRKESSPLTDRHCHTS SQFSHRFNAISFPFPAELGCDHV ASAAADPLGVPGVATQWAGGL SAALAAPRRPHSCRRLQVLGAL GILKSAGRNVNFRFCGPLSIRGKP KTPLWEQEKPKLQTGSAGSQQ KRVMLKPSRGADRVLGRGSQR PAETDRETTDLRQRKRMKEGK ERTLRAARGETRRSNGNLARQ TVPEGCRSQTQALQVVRNART PPCIPNLDRPPEACSSGSTGGM MPLRVAPSPVASGESSHLSSGR GDRGLVRCKVEELRFQPVAFPE FIPPPTSPRADSESGDWCCTVLA NPSKTGSGGWEQRKTEC\PQGR TQNPQQRGS/RNLVLLTAGQES TPRRSQLTRSPA AERRT EEQGE DRKNRALGCNLFPRVPRHARD SQRALRASTQAPKKSTFAFPGI HSGAVCSKRRICGVQGEFFLPF ASQCSSCLKILPSPGPTKELTSY LLHSGCGFLDKLRV
23839	54207	A	23977	3	139	
23840	54208	A	23978	141	734	GSQLRRPAFGVRVALEESKGLI RKDSCRGRACAGANACARRRR PPTMSGAAWRGTPLALVRSSRT RGVWAWQWSATRSPSDSCFPG VARDKEDGEPKTKHLREEEEE GEKHRELRLRNYVPEDEDLKK RRVPQAKPVAVEEKVKEQLEA A\SPPEVIEVDLANLAPRKPDW DLKRDVAKKLEKLLKRTQRAI GRLDP
23841	54209	A	23979	3	585	GTVGGVCGPRRSSASPQEQDQ DRRKDWGHVELLEVLQARALF TAVPLSEEDRATVLKAVHKVK PTFSLPLQLPPPVTNSKLLRDVY AKDGRVSYPKLHLPLKTLQCLF EKQLHVELASRMCVVSVEKPT LPSKEVTHARKT\LKTLRDQWE KALCRELRETKNRLERQVYEG RFSLYPFLCLLDECEVVRMLLQ

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23842	54210	A	23980	1	3778	MRRRGVPVGPWGAACVMSALC WGRGAAGLKRALRPCGRPLP GKEGTAGGVCGPRRSSAS PQE QDQDRRKDWGHVELLEVLQA RVRQLQAESVSEVVVNRVDVA RLPECGSGDGS LQPPRKVQMG AKDATPVPCGRWAKILEKDKR TQQMRMQRLKAKLQMPFQSG EFKALTRRLQVEPRLLSKQ/MG GCLEDCTRQAPESPWEEQLARL LQEAPGKLSLDVEQAPSGQHSQ AQLSGQQQRLLAFFKCCLLTDQ
23843	54211	A	23981	101	805	HMYTSMKPSSQPRSWISTPHPK ACSSLSFPLSLDNWMNINLREVI CTSRDGDKFWRMPECYIRGSTI KYL RIPDEIIDMVKEEVVAKPR GRGGLQQKQKQKGRGMGGAG RVGSPLSSG\VPGAGRQPHVAS LLGVALAALPRRLPNLPGPS CPLAMNRGPGRGAPRHGTQPS QCASWRSSGHIKSPQAPVSPM RGNGGAHLRPLATTLGTLRGS IQSQGRPPPEMMNWH
23844	54212	A	23982	133	1069	RIAWGQDRSCLQGGPFATYVP GLILCSLQGWYGVQAGQDLQG LPRSQGWARRPGGLITCSPSP QDGDKFWRMPECYIRGSTIKYL RIPDEIIDMVKEEVVAKGR\GR EGPCQQAESQK/GVRGMGGA\ GRCVFGGRGRGMGSPITG\RCH PDKKPGRQAGQTVSAHPDRLL RPLLARVGDFRSTVSEPNLLQK GRGRPPRGEPPFRVLVTPSLFKV KAPFFLPKNRQILVRKCLCCF FGFCETGPSQKLGNPLERVLC LKAIFSSPFASGFSRASHFPRRG LFLHFLGSLSEASNQTGRFLIK
23845	54213	A	23983	1	326	PVSLECYTVPPEDNLALLQLYF RTLVTGA/LRPRWCPVLYAVTL WPHVNSFIFSQRPRIVDIDGKM GTLSCIQPFNRCLARRRTLCPNG RQETKEQKACLPGRSLFELF
23846	54214	A	23984	2	341	

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23847	54215	A	23985	114	712	DLISALMIWFHVIVIHPTPYVCIYI PTLPLSTSFPLSQLPVSLECYTV PPEDNLALLQLYFRTLVTGALR PRWCPVLYAVAVAHVNSFIFSQ DPQSSVSYISIFRGRKGASN*AA SGPAGEEVSVKQGQWVVPAL GSVPPLPVLLLDEVKAARRSM LQKTWLLADEGLRQHLLHYKL PNSTLPEGFELYSQMPPLRQHY
23848	54216	A	23986	357	2771	FESSCPPVGSPVGAGPTPSLYKV PCATAMKLLRLVLASAGRNIAA RLSSFDLRSRLCRIIAEAPQEL ALPPEEAEMLSTEALRLWAVA ASYGQGGYLYRELYPVLMRAL QVVPRELSTHPPQPLSMQRIASL LTLTQLTLAAGSTPAETISDSA EASLSATPSLVTTWTQVSGLQPL VEPCLRQTLKLLSRPEMWRAV GPVPAACLLFLGAYYQAWSQQ PSSCPEDWLQDMERLSEELLPL LLSQPTLGSLWDSLRHCSLLCN PLSCVPALEAPPSLVSLGCSGGC PRLSLAGSASPPFLTALLSLLN TLAQIHKGLCGQLAAILAAPGL QNYFLQCVAPGAAPHLTPFSA WALRHEYHLQYLALALAQA AALQPLPATHAALYHGMAALAL LSRLLPGSEYLTHELLSCVFRL EFLPERTSGGPEAADFSDQLSL GSSRVPRCGQGTLLAQACQDL PSIRNCYLTHCSPARASLLASQA LHRGELQRVPTLLLPMPTPELL PTDWPFLPLIRLYHRASNTPSG\ LSPTDTMG\TAM\RVLQWVLVL ESWRPQALWAVPPAARLARLM CVFLVDSELFRESPVQHLV\AAL LAQLCQPQVLPNLNDCGLRG LTSFPDLYANFLDHYEAVSFGD HLFGAMVLLPLQRRFSVTLRLA LFGEHVGA LRALSPLTQLPVS LECYTVPPEDNLALLQLYFRTL
23849	54217	A	23987	291	454	KAETGSLPYTLCKNQFKMD*RL TC*T*NHKNPRRKPR*YHSGHR HGQRLHDENT
23850	54218	A	23988	1	613	

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23851	54219	A	23989	807	1345	RCEERLLPLNLAVIALPSGLER WSFFAVYNGHPGSQVAKYCCE HLLDHIADNQ/DFTGSAGAPSLE NVKNGIRTG/CPEPEVHDTERSE EDDHFIILACDSIWDVMGNEEL CDFVRSRLEVTDDEPKVYNEIV DTCLHKGSQDNMCVIFLWFPN APKVSPEAAKKEAELGKYRLN SILSDQ
23852	54220	A	23990	344	636	SSLSLLDIWVGSKSLLL*IVPQ*T YVCMCLYSSMIYSPLGIYPVMG WLGQMVFLVLDPSGIATLTST MVELVYSPTNSVKVFLFLRILSS TCCFLT
23853	54221	A	23991	1	2793	
23854	54222	A	23992	18	409	SSVVEFVDPRVAPALLPQLPLES SSHGSVLPTMAVCLDKGHKMT KNMSKPRHSCRRGRLTKH\KFM WDMIREVCGFAPYERHAMVLL KVSCKDKRALFIKKRVGTHIRT KRRQEELSNVPAIMRKADAKK D
23855	54223	A	23993	1	609	MHPRGPPPPAQEESHTDESPGID HQSLARRAGRVGRTGGFSQLL AQTNLSMLSSSPASCTSPSPDGE NPCKKVHWASGRRRTSSTDSES KSHPDSSKIPSRRPSRLTVKYD RGQLQRWLEMEQWVDAQVQE LFQDQATPSEPEIDLEALMDLST EEQKTQLEAILGNCPRPTEAFIS ELLSQLKETPETQPASEISLRDH
23856	54224	A	23994	1	204	
23857	54225	A	23995	1	418	MWNRLCNWVTSIGWKSLEGSE EDRKSSQWGTLPSGAVRRGPPS SRSKNGRSNSSLHPVPGKATGT QLEPMRAVMGDESCATGTTEL LHALGAHPLHRLKQHSHMMF QKVQVEPLRK\EPHHWQRL*PF SSE*NHGPSR
23858	54226	A	23996	104	253	

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23859	54227	A	23997	666	1436	WRPCFWLQAKKEAPAPPKAK AKVKAL\KAKKAVLKDVHSHK KKKD\RKSPTRFG\PKTLCTR\KP PKCLQKTAPRKNKLDHCAITKF PLTTKSTTKKIEDNNTLVFIVDV KANKHQFKQAVKKLYDTDVA KNITKRWDVTSITSCYIHLRLA SRLALEDLLAGLMNCLKGTFW NEESGERVETRPESTRFKQQSKLI YTIKNPGRKKYGAEEKRAFWC HTDULLHHDHDEQVNHFSPTSST FTKCKRRKPFLREFVWIK
23860	54228	A	23998	2	301	
23861	54229	A	23999	1	242	MGMVRKQALERTEWALVCRQ AWSSRMGYSTTVSPTQCQYTC SRGLLDSQLQLYKCTQALPEIH SLGHVCPSLITVKYSHYVLA TLFIWDNNESLRTGLLSVSTCK SGTRDFMRISGMVSLTSEVDNV EVFHYFPLHIQGGKFWAVGAI MTIFVISIYYEPGAHWHHMWK LLKVYSLESQKREEDISKRLPNF LKSSRRPWEDLILMLRKSPEMS KEYRASPLSLAALRSKDRQSR HRCVTSTFHIREVRCKSQGLP LCMHETAHICP*TEGQQKGS GLLYIP*TSPEIFSASESDPPMAC
23862	54230	A	24000	2	948	CGTPTVVPGTGTSRRVRTATVE PTWKCRAAQPPPPP/PPLWVK LPPPDSTKPELQLEELDADSS WMPLHGSCPTGKLAVDARSSL FTEPAFPYWKKMKHTFQNILS WSKFTNLTYSVTQLWLLVMA QTSYPHSLVGRKQVILHSSCLY SLDNKTSAGDDHDDDDHDDN DSSPAEKGPPPIKSLDKADEQS HLRLAVLELGFYKPVNLLVA MTGCLLQMMKKEQCGTHGG EGSTLEGSRPDVPQDLFSPTLGF YGSTSLSADLGENVILKLYLPSF PLQESEPSAEHGENLWALYVGF EERRSEASLAKAP
23863	54231	A	24001	265	513	
23864	54232	A	24002	513	796	TGTAWTPPPPLTTGAPCTPPR CTARGRT/PGDHLGGGPAATA GGPRTSPMSSGGPSAPGMRPPA SSPKRNTTSLNSGLEPTFSFRIT FGFM

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23865	54233	A	24003	1268	2097	TPELTGAISLSTLGDPSFPRQPSS AQMGHLLSTSLSTPPTTSNSETT QPAFATVTPSSSVLPGLPQTSF SGMGPSAELMASTSPKQQLPQF SAAFGHQLSSHSGIPKDLQPSHS SIAPPTGFTVTGVKLQTFVSVT VLKATCLELFVPPGGFVVSLS GVKLQTVTPLHFSGNHPSAFYY YRLSFEMDKGKKRQFGVEKEK CGSLGGFVMLGNEEMIRRAVT LIAWTKIPFLGIREAKNPGSENI RLATILEAPPPSWELWEQGPPG APYYQP
23866	54234	A	24004	3	1163	GEVTSWNRGRGLRIWRYFLFGP VQKTMRLLLSRLTYCWLEQDG RVSWRLGLEIGSLPTVPVRLCP ANRSPPMVC GTTGRSSSNSSTE KRMCTCSSRAALHFLKGPEGG TLMEEIRALIKEPPESLTPSTRG GHSEKAPSKNHQAATVNTTTL RISHISHTHLLIHCTGKEQHEPY EDAATRSRPEADLSRHERLTCR HLDLGLPDMQNRQCVPGSQGL RPVGGLEGPRHWCLVRSSRLG VLPRRPQGCEDDAGGLQRQDC GQWRELVQLPTPP/VCPGGASP HPKPLPDLDPGSSRCFCLLP TCAAPPAGSPSPCSQSPGCLPP VPTPSVLECCTQVLLEDSPQS HRNSAPHLQPGIWSHIPGSHPW CLVLAAEGSTSSV

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23867	54235	A	24005	1	2502	MEARVERAVQKRQVFLFCVFL GMSWAGAEPLRYFVAEETERG TFLTNLAKDLGLGVGELRARG TRIVSDQNMQILLSSLTGDL NEKLDREELCGPREPCVLPFQL LLEKPFQIFRAELWVRDINDHA SVFLDREISLKILESTTPGA AFL ESAQSDVGTNSLSNYTISPNA YFHINVHDSGEGNIYPELVLNQ VLDREEIPEFSLTLTALDGGSP RSGTALVRILVLDVNDNAPDFV RSLYKVQVPENSPVGS MVVS SARDLDTGSNGEIAYAFSYATE RILKTFQINPTSGSLHLKAQLDY EAIQTYTLTIQAKDGGGLSGKC TVVVDVTDINDNRPELLSSLT SPIAENSPETVVA VFRIRD RDSG NNGKTVCSIQDDL PFILKPSVEN FYTLVTEKPLDRERNTEYNITIT VTDLGT PRLKTEHNITVLVSDV NDNAPAFTQTSYTLFVRENNSP ALPIGSVSATDRDSGTNAQVIY SLLPSQDPHLPLASLV SINADNG HLFALSPWTTMPLRAFEFRNNS PALHIGSVSTAETNIQVTYSLLP PRNPHLPLASLV SINTDNHGLF ALRSLDYEALQEFEF RVGASDR GSTALSSEALVRVLVLDANDSS LFVLFPLQNGSAPCTELMPRAVA AEPGYLVTKNAWLS*QLLKAT EPGLFGVWAHN/GTDRLLSERD TAKHRLMVLVKDNGEPPRSAT

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23868	54236	A	24006	1	1960	MEARVERAVQKRQVFLCVFL GMSWAGAEPLRYFVAEETERG TFLTNLAKDLGLGVGELRARG TRIVSDQNMQILLSSLTGDL NEKLDREELCGPREPCVLPFQL LLEKPFQIFRAELWVRDINDHA SVFLDREISLKILESTTPGA ESAQDSDVGTNSLSNYTISPNA YFHINVHDSGEGNIYPELV VLDREEIPEFSLTLTALDGG RSGTALVRILVLDVNDNAPDFV RSLYKVQVPENSPVGS SARDLDTGSNGEIA RILKTFQINPTSGSLHLKAQ EAIQTYTLTIQAKDGGGLSG TVVVDVTDINDNRPELLLS SPIAENSPETVVAVFRIRDR NNGKTVCSIQDDL FYTLVTEKPLDRERNT VTDLGT NDNAPFTQTSYTLFVREN ALPIGSVSATDRDSGTNAQ SLLPSQDPHLPLASLV HLFALSPWTTMPLRAFEFR PALHIGSVSTAETNIQVT PRNPHLPLASLV ALRSLDYEALQEF GSTALSSEALVRVLVLD LFVLFPLQNGSAPCTELMPRAA
23869	54237	A	24007	1	966	MGHHLMIDKLVALGGLYYAIQ RHYATKCSVLKNDQILVIGLFM IQNVIYRKHFANPLSALFLQQGI ELFAAIAEIHITVAERNHAIQI RLEAQTIFDSLKEWHNAIRKSL DYEALQAFEFVVGATDRGFPAL SSEALVRVLVLDANDNSPFVLY PLQNGSAPCTELVPRAAEPGYL VTKVVAVDGDSGQNAWLSYQ LLKATEPGLFGVWAHNGEVRT ARLLSERDVAKHRLVVLVKDN GEPPRSATATLQVLLVDGFSQP YLPLPRAAPAQAQADSLTVYL VVALASVSSLFLFSVLLFVAVR LCRRSRAAPVGRCSVL

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23870	54238	A	24008	1	2673	MEVMGMNGSKILITGITSTKRK VALLAKKRERKHSQRKDVTD RAKRQSEESIGKETVVIGIGLI SKDSAAAICESRWLSESHFER LIQRRMEARVERAVQKRQVLF LCVFLGMSWAGAEPLRYFVAE ETERGTFLTNLAKDLGLGVGEL RARGTRIVSDQNMQILLSSLT GDLLLNEKLDREELCGPREPCV LPFQLLLEKPFQIFRAELWVRDI NDHAPVFLDREISEKILESTTPG AAFLLESAQSDVGTNSLSNYT ISPNAVYFHINVHDSGEGNIYPEL VLNQVLDREEIPEFSLTLTALDG GSPPRSGTALVRILVLDVNDNA PDFVRSLYKVQVPENSPVGSM VVSVSARDLDTGSNGEIAAYAFS YATERILKTFQINPTSGSLHLKA QLDYEAIQTYTLTIQAKDGGGL SGKCTVVVDVTDINDNRPELLL SSLTSPAENSPETVVAVFRIRD RDSGNNGKTVCSIQDDVPFILK PSVENFYTLVTEKPLDRERNT YNITITVTDLGTPLKTEHNITV LVSDVNDNAPFTQTSYTLFVR ENNSPALPIGSVSATDRDSGTN AQVIYSLPSQDPHLPLASLVS NADNGHLFALRSLDYEALQAF EFRVGATDRGSPALSSEALVRV LVL DANDNLAPFVLYPLQNGSA PCTELVPRAAEPGYLVTKVVA VDGDSGQNAWLSYQLLKATEP
23871	54239	B	24009	1	993	
23872	54240	B	24010	1	4056	
23873	54241	B	24011	1	906	
23874	54242	B	24012	1	4318	
23875	54243	B	24013	41	1935	
23876	54244	A	24014	3	328	GWQSGPVLGGLCGTAGQSCGD GDGIWWAQAAQAGDPAHLRL LTHGQPSSVPEAPVRAHQPALP QPRSAARECGR/AGRSTTNSL RKRVASESYMIVAPMPSSWSS SG
23877	54245	A	24015	114	567	VKKPHSAEWVPLWGLQPGWR QPFRCSNGSEKELRRPVSNQEI LSPVTMRKPAVSVCCDLTLREA APPFQRHERTYTGEKPYKCKQC GKA FSGFCYTQILEKAQTGKQP YE/AHERTHWKQNH DCTQFGK AFSFSSSLCIHEKIHTGEKLYE

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23878	54246	A	24016	170	491	PAQHQRGLWQSPTHQALTLML SVHREDWKPVLTTNSIYGLQYL FLESKNRWGLERLGFCSGLIT PPTCTGHRSP/NPEDPLNKEAAE VLQNNRRLFEQNVQRSMR
23879	54247	A	24017	1	1062	
23880	54248	A	24018	2	700	RRPTRPGGGSGGGGGRMIKLFS LKQQKKEEESAGGTKGSSKKA SAAQLRUQKDINELNLPKTCDIS FSRSQTLLNFKLVICPDGEFY KSGKFVFSFK\VGQGYPHDPPK VKCETMVYHPNIDLEGN\ICLN ILRGDWEASPLRLNSIYGLQY\ LFL\EPNPEDPLNKEAAEVLQN NRR/VCFEQNVQRSMRGGGLHPA PPTFERCLKIGLAHTHPPRPQA LASPAKYLLGAMG
23881	54249	A	24019	302	884	PMAPLSSQOPTLFPNTLTQAQQ VQLTKGLRKWMVQHGGDGW VVEENRTTVPGAPSQTCFVTSF/ EVNAPAIQSWCCKKQVLDLEE EGLWPELLDSGRIEICVSDWWG ARHDSGCMYRLLVQLLDANQT VLDKFSAPDPPIQWEQQCLPF TFTHVFFQHSRWGVRFCVFSEH RGPETHSSGAGPLLSPCEQLQC
23882	54250	A	24020	274	866	SSLLNLPSSWDYGWVSYEQAN CKGEQVFVEKGEYAHWDWWT SSQRTDFSSLR/RPSKVDSQEPK VYLYENPNFTGKKMEIIDDV PSFHAHGYQEKVSSVWVRSG MWVG\YKYPGYRGLQYLLKKG DYKDSSNF\GARHPQV\QSVRCI HDMQGHQCGAFHPLGTQEEEE AGQKEQMEQVPFWLARGDICE LSGKKSVI
23883	54251	A	24021	179	374	AASIGRSMTEKAHAGPRPGRN* ADAPSSSDTLFPPDALLSNQAG RLACWLFSGYPQTKNDFHIFK
23884	54252	A	24022	1	141	

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23885	54253	A	24023	1	506	PHSPLWKTLCSPSSGVCCGFVT LFCNDRFACLFQLTPPPSPAWM TAAASLLASLLPALPPLNLQDA KFVEERRKQLQNYLRTVMNKV IQMVPEFAASPKKETLIQLMPFF VMGLQVGMYGFLFHFGVMMDQ PQPSLTRADESPCDRVLSPCAA HRKQRDCCLSWKAEPE*FLVK* KTLCSPSSGVCCGFVTLFCNDR FACLFQLTPPPSPAWMTAAASL LASLEPALPPLNLQDAKFVEER RKQLQNYLRTVMNKVIQMVPE FAASPKKETLIQLMPFFVMGLQ VGMYGFLFHFGVMMDQPQPSLT RADESPCDRVLSPCAAHRKQR DCCLSWKAEPE
23886	54254	A	24024	1	396	
23887	54255	A	24025	1	1176	MVPGDLSQTSQSLSDFEISN RALINWIPSVFLRGKAANAFH VYQQSIAGVSGIARKRALIPFGK STFSYVCITNIKLTDALPSWDYT CHFNLPKAQKPGEPTKCILTME WLALLQGDPGSWIQKEFIVGKR GGKMDNILWDQRDVQPPGLRP HQLLHSGGGPLISFRNGGPILV WELRRKGASGKEIVGSRVFRES DEVLVWKNPKTLQKEDEEVNS THPMHTYPCTHCQVFCVTAEI NIYLQACIVLEMSMLPPGERPLF LLRLTTVLEVTVFDSQWSRPYH VSADPSAWKHHHHYHHHHHY QLSSSSPTITIINHPSPS/LSHASPS P/CHPSPSPAVHHHHQPSITITSR PSPSPAVHHHHQPSITIIIRPSSITI INHPSQASSIHHHHQPSIPFIVSH
23888	54256	A	24026	1349	2125	
23889	54257	A	24027	670	972	KTDEWNIYRRYTEFRSLHHKLQ NKYPQVRAYNFPPKKAIGNKD AKFVEERRKQLQNYLRSVMNK VIQMVPPSSLPAPKKETLIQLM PLLRTSTPPRRAL
23890	54258	A	24028	1	699	

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23891	54259	A	24029	221	864	VDCPRSFSAVVVWQGRFWLLS FIPGGFLGMTLFFASGMNWTVT LLGFLAGNLEVEPSDTIENVKA KIQDKEG/PPDQQRLLIFAGKQL EDGGTLDYNIQKESTLHLVLR LRGGMKIFVKLTGKTITLEVE PSDTIENVKAKIQDEEGIPDQQR RLIFAGKKLEDGRTLSEIFLDV GLLLSCRTVSSCGAFILGWSVVI LIPVISTRDDTSTTK
23892	54260	A	24030	2	864	PSFRLAWPEGRALLGELVCVP VVGRGMENGRILVSADRSGGHI CLKTLTGKTITLEVEPSDTIEN VKAKIQDKEG/PPDQQRLLIFAG KQLEDG\RTLSYNIQKESTLH LVLRLRG\GMQIFP*RP*PAKTI TLEV\EPSSHHRKF*RARFQGKE GIP\PDQQRLLIFAGKQL\EDGRT LSYNIQKESTLHLVLRRLRGM QIFVKLTGKTITLEVEPSDTIEN VKAKIQDKEGIPDQQRLLIFAG KQLEDGRTLSDYNIQKE\STLHL VLRRLRGGC*FFSHGIRSAQ
23893	54261	A	24031	1	124	
23894	54262	A	24032	97	296	
23895	54263	A	24033	71	269	AAGYRPCPRHPGARRTAATRR CHPSPAVARPAGCSGPP*CYAL SPDPARTRRGDPQTTPCRLPRA G
23896	54264	A	24034	206	667	STRGLPKCWDYRREPPRPAKS SFLTAQACEAQKTGSATTRKD CFLQPTFWLLPFLVLEKGAPSA CRGKRYVRVWLSLSTGAILQP YPKLQVSNWL*CARDQEMPEG CL*QSCQTLSSLVLPPEKKDV *EISPWTPAPPEHQYTVRTFQSP
23897	54265	A	24035	3	190	GTFKNDLILLISKSY*APLPSD FSHSDTSS*KPSKSLKTYSPPPF SAKTSLLQCPRNILE
23898	54266	A	24036	197	474	SPLSHRGASELLSSLHLRSSCSS PKMAETPEAGFQIVHSASPQPG TAPGNPWAAGAGG*HCEPGQL AGPYRAASFFGQAWPPHPRAK LGVSRL
23899	54267	A	24037	164	323	GQEIKTILANMVIPRLY*KYKKI SWAWWHAPVVPATWEAEAGE LLEPGRQRLQ

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23900	54268	A	24038	582	1166	HCEPGQLAGHLGQPLSSGRLGH LMASHKLSNNYYRTRDGRRES VPPSIIMWSQKALVSG\KPAERV YGDANHTVGNMCASRLGGYL GFSIRIVVFIWYLGLSVVVNML VGRQCDWQGLVYGQPELLVFS GNMPGEVARGKHRNEKAPLSM RPASQCRVFCVLKGCSESRHK EQTPDTTIFKNCNTHCEGPWLH
23901	54269	A	24039	1214	3878	
23902	54270	B	24040	62	1242	
23903	54271	A	24041	74	408	
23904	54272	A	24042	790	1877	DEIVDPGSMKWSYKSQLNYKT KRPSVFVTALTHRPDILILGTLE SGHSRNLTCSPWACKQGTPP MISWIGASVSSPGPTTARSSVLT \\LPQSPQDHGTS\\LTQCCT\\LPG TGVTTTSTVRLDEAYPA\\WNLT MTVFQGGEGTASTTLRNGSALSV LEGQSLHLVCAVDSNPPARLS WTWGS\\TLSPSQSSNLGVLELP RVHV\\KDEGEFTCRAQNPLGSQ HISLSLSLQNEYTGKMRPISGV MLGAFFGAGATALGFLSFCIIF VGVRSCRKK\\TARPTMG\\VGDT GMEDT\\NAV\\RGSAISQGTPELN PRQKEQAPQNHGSANALANPP RPEEGEIQYASLSFHKARPQYP QEQAIGYEYSEINIPK
23905	54273	A	24043	183	1176	VHQLVFPRQHQRHSVFPKANSS WIHQLFPQ\\QHSYGPSAVSAGQ HQLMVHSLFPQATPAHASISLV FRQGT\\HQLHRVHQRRI\\PSAQHQ RHRLHQRRLPSAQHQRHRDSIS VCFPFRAHTRPHCDSIQRQHQL MRSIGLFSSGKTDPTVTLLKEA AAEHEICLSRHPVNLRETKAH LGNA\\HA\\VFPRGNQKKPEMCP YLP\\THKL\\VVPTP\\PLIPLEAALRN IAHSRSIPPPKKFSPTPDTSDDYL LVFNSFPYSKLTTPKTGQGENL GSTRP\\PCNGP\\PTRGPHNGAKY PGDVSHPVGVGTLWANRL\\LTG QYEENGKSFFLLICTIATFQVNA
23906	54274	C	24044	178	342	
23907	54275	C	24045	86	283	
23908	54276	C	24046	91	177	
23909	54277	C	24047	11	169	
23910	54278	C	24048	209	673	
23911	54279	C	24049	164	208	

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23912	54280	A	24050	182	255	DAESRRSWQPLPEPLELRPRLSD
23913	54281	A	24051	146	456	LKNHKRSEKPCPTLTDDIPPQK KCKWPVLALSADITL*KSFSWL ILAQKAPPLSTL*PPLLPAREQM SFDLIFLYLPKSYKVAPPLSSFT ESLFGLSPPAPR
23914	54282	C	24052	90	215	
23915	54283	B	24053	1	1059	
23916	54284	C	24054	129	215	
23917	54285	C	24055	19	347	
23918	54286	C	24056	228	260	
23919	54287	B	24057	406	602	
23920	54288	C	24058	7	375	
23921	54289	A	24059	322	400	FLLSRVPSV*DPTENQTVQLTWEWLP
23922	54290	A	24060	818	1078	ILDVFSYTMKIEPSPLRSYPISPH YNL*QLPP*LDP*ESGYKTPLSA LLLTFLLYISSFASHKVSSSSVD PLPTCAYLPIGQAHVH
23923	54291	C	24061	1	411	
23924	54292	A	24062	1	861	
23925	54293	A	24063	425	484	
23926	54294	A	24064	1844	2097	HSAGTKLRLVNFLTLLRLVNS VMRLKKSFMVMQRMVSIPKV WSISLGFLLSFVPSVWDPT/ENR TVQLT*HPLPEPLELGPRLSD
23927	54295	A	24065	729	807	LFSCSCPPKPPRP*LTAEGGLC IFL
23928	54296	B	24066	1	1317	
23929	54297	B	24067	509	810	
23930	54298	A	24068	1	385	MDLPSTVRVTRSSASVMVQGG SEAIRQRQSSAAKPRRSGKESKS LGPEFQGLWEWLPEIYFSQFRR LGNPKSRHQIQCLMGACFVV TERLSFQDSLDAEPRHSYPLQ VKRLDLPTVLETETDLEKLDPF TTIPSPVETLQCLFVSLRIKSRVP *FWISQPEL*EINFWQPLPEPLE LWPKAL
23931	54299	B	24069	1	774	
23932	54300	A	24070	350	640	SLQGCLSDNSPTFQRCQTTQGR LPWSFTLSGKSHFSGGVARACY TCQKSGHWARNASSPGFLLSR VPSVSDPTENRTVQLTWQPLPE PLELWPKAL
23933	54301	B	24071	85	331	
23934	54302	B	24072	1	1844	
23935	54303	B	24073	1	1169	

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23936	54304	A	24074	63	220	NLTGNIWNREWYSHDFDILLD PVGFSGSIKMPKRKLFKCHSV *GHWRSKSE
23937	54305	B	24075	497	898	
23938	54306	A	24076	3	678	GGGFSDRDRITIALQPGQIWM WGIGKQVGGCGWLRGKNRVV GAAKDQSGTGKIFYFIPKAMG AMEGSGQRRITLPDGAHRNPS GGYSATDCEGSRPAPGEINSHA SHTKPVWWFFTQTRMKFGAVT RIGGLPWEVNPLSSCSLLRE/KD PPTTSGPQSNQPRKH/LTNFKSG A/CYTCKRSGHWAKECPLPGFL LSRVPSVWDPTEN/RTVQLTWQ PLPEPLELWPRISD
23939	54307	B	24077	522	873	
23940	54308	B	24078	329	530	
23941	54309	C	24079	147	439	
23942	54310	A	24080	3	3889	
23943	54311	A	24081	2	394	
23944	54312	A	24082	1	197	
23945	54313	A	24083	1	205	CLRAGPHALYLLC/NIPEFTFLS RADFAARSQVLDLLTDP\FQ/QEL EELLQVGAVTILIRILPCLPLP
23946	54314	A	24084	134	182	SCFIPSSQPVAGTERSRLGPQY FQTPHNPSGPGGLGNQLMR*AF
23947	54315	A	24085	257	481	
23948	54316	A	24086	415	630	
23949	54317	A	24087	123	340	
23950	54318	B	24088	49	270	
23951	54319	A	24089	1	900	RSRVRRREVVALRRGLACIPSLG VWRFPSVGVLAVSDRWCLAVS DRWCLARATLSCFGCAMPYQ TRRQENDLRTASIAV*RRKQON DH*KQRRWQNIQRKGPKRYIVI AGNSQSHQPMIFSMRLKLPKVT CRDVLPEIRAICIEIGCWMSY STSFLTDSYLKYIGWTLHDKHR EVRVKCVKALKGLYGNRDLTA RLELFTGRFKDWMVSMIVDRE YSVAVEAVRLLILILKNMEGVL MDVDCESVYPIV*ASN*GLASA VGEFLYWKLFYPECEIRTMGGR EQRQSPGAQRTEFFQLLL

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23952	54320	A	24090	1	812	MARTPGAELAVAKYPPKGSQA VHRHSRKQSEPPANDIFNAKA AKSDMQHREVRVKCVKALKG LYGNRDLTARLELFTGRFKDW MVSMIMDREYSVAVEAVRLLI LILKNMEGVLMVDVDCESVYPIV LFYPECEIRTMGGREQRQSPGA QRTFFQLLLSFFVESKLHDHAA YLVDNLWDCAGTQLKDWEGGL TSLLEKDDQSTCHMEPGPGTFH LLGESPGISAIVQGAIEKSGERSS PPPKRIGSMKEGPMVLPLALDT QCWFPVEVPLD
23953	54321	A	24091	152	1209	MPLKNVQNITHFPLEKELALPL LIFSPLHWCVSGYLSLPLPNPKP HFSNPLLLQVILPALTLVYFSIL WTLTHISKSDASPGECGS*MG* WEQRNLCPSILPLQSPLCPTAA VEFEGTRMVAFCCLC\QSCLSD VDTEIP/ESR*VLAQSGRKKAEY PCPPFPRRN*QCHYLPWETFCPF KHPFFSPLQAFVLLSDLLIFSP QMIVGGRDFLRPLVFFPE\ATLQ \SELASFLMDHVFIQGRPGQW CSDSIPGAQ*GLGLGCSSKI*GR KLKSVIPFCLPCEPGDSQEDHLQ IERLHQRRRLLAGFCKLLLYGV LEMDAASDVFKHYNKVHQGPS LGFTKPLVMPRFSAAATV
23954	54322	A	24092	37	625	SLMLLTPFHFPPEECPPPIPTAH HLLPFLSTWELFLOQLQEVVV KHAEPVLEAGAHALYLLCNP EFTFFSRADFARSQ/V*DLLTD\ RFQQ\ELEELLQGRELGAGTMG DTPNKGWGGGCKTGGMWDL MSSGGKCYCGIFFSFSILPSQIED EVYNLGSHSETPLCLLQVSGFP PLPHPVFTGVCVGSLCSFPV
23955	54323	A	24093	2	198	PNDRSRVTREMSAPSRSLGRFL SVGVWHAPPSLALVPPCRCTRL KTYHGRGAPLRVELPTCMYRL SNVQGRSGGPAPGVGHLQSLV DEWLDSYKQDQDAGFLAELVN FFI*SICGM*RNSGDYPLTAPGL SWKKFQGSFCEVGTLCRCQ YILLHDDFPMNLISLLTGFSDS QVCAF\RHTSTLAAMKMLTSLV RVALQLSLHQDINQRQYEAER NKGPGQRAPERLESLEKHKEL H*YQAKNLSRARCASTCGASH
23956	54324	B	24094	211	3841	

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23957	54325	A	24095	1	1798	MSLLAFKIILVGFEGSKARVQT DLFYRSLVLFLLQLQICFPLSCFG NWKGEEGGMQRWVLGKNEKI ASPHRLPAPTARFAVSLQLNLRI LGAQFGPVLVFLWRPLDRDN ASPQSEFLNSCGITAYLVGKRE GGVERGGGGRRSSERCRTLSFS PRHSHVFSTSRFCKILKKSPGAN GGRCRARGGGLHGARAANPPT PIAEPARLPACLSRAEPEPQAAE PAPPPVGVVRSRPLSHRRHPVV CPAAPIRLINKRLAHSARPAGIC CVSRSGLSALAAAGTASMFQLP ILNFSPQQVAGVCETLEESGDV ERLGRFLWSLPVAPAACEALN KNESVLRARAIVAFHGGNYREL YHILENHKFTKESHAKLQALW LEAHYQAEKLRGRPLGPVDK YRVRKKFPLPRTIWDGEQKTHC FKERTRHLLREWYLQDPYPNPS KKRELAQATGLTPTQVGNWFK NRRQRDRAAAAKNRSQTSPWA EAFRFPECGRSLAKHFAEEPGLI PQAQMLLTILFAFRSGRPDPTRS REHLLRRKPQADAPLEM/LQQQ VLSQGSGRALRAEGDGTPEVL GVATSPAASLSSKAATSAISITS
23958	54326	A	24096	3	1034	GLHGARAANPPTPIAEPARLPA CLSRAEPEPQAAEPAPPPVGVV RSRPLSHRRHPVVCPAAPIRLIN KRLAHSARPAGICCVSRSGLSA LAAAGTASMFQLPILNFSPQQV AGVCETLEESGDVERLGRFLWS LPVAPAACEALNKNESVLRAR AIVAFHGGNYRELYHILENHKF TKESHAKLQALWLEAHYQAE KLRGRPLGPVDKYRVRKKFPLP RTIWDGEQKTHCFKERTRHLLR EWYLQDPYPNPSKKRELAQAT GLTPTQVGNWFKNRRQRDRAA AAKINRLQQQVLSQGSGRALR AEGDGTPEVLGVATSPAASLSS KAATSAISITSSDSECDI

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23959	54327	A	24097	3	1024	GTRVGVAWRSVRLLLGPGAGL RGGVVLKVSPSPCRGRRVPVR AEGARGRGPINKVPGASSGAA VGAARLTAPLLAKAMASKLLR AVILGPPGLGKGAPVCQRIAQN FGLQ\HLS\SGHFLRENIKA\STE VGEMAKQVYREKVFLVPDHVI TRLMMSELENRRGQHWLL\DG FPRTFGQAEALDK\ICEVDLVIR LNISFETLKDGLN\RRWIHP\PSG RVYNL\DFNPPHVHGIDDVTE PLVQQEDDKPEAVAA\RLRQY KDVAKPVIELYKS\RGVLHQFS GTET\NKIWPYVYT\FSNKITPI QSKESILT\LAQWEEPGRCGSFIP IVWCSNWCCCPNLEA
23960	54328	A	24098	2	178	
23961	54329	A	24099	96	340	FGALTRIG\DLPEINPLSSCSLL PEKDPPMTSGPQTDQPKHELTN FKSAARRSSRTSSHRNLLHVLEI WQLDQGMPAARDS
23962	54330	A	24100	3	155	
23963	54331	A	24101	1	162	
23964	54332	A	24102	1	1032	
23965	54333	A	24103	167	476	TAMLLTQSLFGGLFTPTHMKFG AVTQIG\DLPEINPLSSCSLLR EKDPPTTSGPQTHQPKHELTNF KSDHHGCRASGNSHSGRMILLIF SPSRGLYACSCVKT
23966	54334	A	24104	371	772	
23967	54335	A	24105	146	312	QKRSIPNSSPIP*SHSLLANCTK/ DHHFLNGSKSFQPQLLSCKFS* GQHLLFQALCT
23968	54336	A	24106	76	441	
23969	54337	A	24107	1	1284	
23970	54338	A	24108	150	371	EESRAAGIPWPSGQISGTC SKL\ CGRRFWRNAWPLRFRLHLEVLV CWRCGCGLSHSGGKELQLFSII VHLEGEVN
23971	54339	A	24109	280	351	
23972	54340	A	24110	1	483	
23973	54341	A	24111	129	363	FGVVTQIG\DLPEINPLSSCSL LCEKDPPTTSGPTKKHLTNFKS SKRPLFTLFSNLPHYPSTSFQ WRYTSISPF
23974	54342	A	24112	2	111	
23975	54343	A	24113	3	808	

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23976	54344	A	24114	497	815	TALLLTQILFGGLFIWTRVKFG ALTWIG\DLPWEINPLSSCSLLH EKDPPTTSGPQTDQPKKHLTNF KSACFERIKACYHSPATAWPFK AYKLSQLQFPHTCPKTR
23977	54345	A	24115	1	753	
23978	54346	A	24116	1	513	
23979	54347	A	24117	625	701	IHVAHKLA VVMPCCKRGCLSL FYFQLIWSHKGWVRSGEASHR EMAGLLLLCSS*PPSPCETLPRS EPSLCDSRSAESRTKTSNLSCIP ASLQQVCGPREFIWSGNHCHPF LPITRCYGCLCYHYCMENSIL
23980	54348	A	24118	458	605	VVEEGIEDKRVYRLGTTGWIGK TIWLVRRRS*TNL*DLSGFWTG KMGEL
23981	54349	A	24119	566	769	IKEKGGLFSFSASNLWKQVTSS FLCSPLPLSLLKSSKLLANRDKY RMCGPVPANGNRTQQ*SKHVR
23982	54350	A	24120	345	664	GEIAASQEPAGGFSGSSAQPCPL PWTGPPTTQAPGH/CNSAPSSRD NASSNGGRRQRVPTVPGGGLIL QREHILLPLGPALRAAGKEPAT AATIPESPGDSDDSRT

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23983	54351	A	24121	2	2204	IDMIFTGPPSTPKHKKSQKGSA FTFPSQQSPRNEPYVARPSTSEI EDQSMMGKFVKVERQVQDMG KKLDFLVDMMHMQHMERLQVQ VTEYYPTKGTSSPAEAEKKEDN RYSDLKTIHCNSETGPPEPPYSF HQVTIDKVSPYGFFAHDVPVNL RGGPSSGKVQATPPSSATTYVE RPTVLPILTLLDSRVSCHSQADL QGPYSDRISPRQRSITRDSOTP LSEMSVNHEELERSPSGFSISQD RDDYVFGPNGGSSWMREKRYL AEGETDTDTPFTPSGSMPLSST GDGISDSTVPLFLSSEILQKQVG QSITSMGLGFLSRGSPMKLCMGL ACVLSLWNTVSGIKGEAKKEK GMTFLPTTDSKKFFSLLSVTSYS SFAFHKFSVAVYNISNLKTVDP AKFPTRYCYCLNNRTNDLSDF ALLVDIIGNSTSYLTEIFKSTSIL SVNQSNECDCIFICVMTGKSGR NLSDFWEIEEKYPIINYTFTSGL SGVLALLLTQSLFGGLFTRTRM KFGAVTRIG\DLPEINP/LSSCS LLHEKDPPTSGPQTDQPKKHL TNFKSAARPTFLGQGQVPLNPF SFTLSGKSCFPRRQEPNRLFP PNLLSLCPNPLFLCPNPFSTFLE GKNHHHPFVSQSQVSLGLPPS LWEHSPMAHRLRVQPRQQPPDI HKQVISLQSGHSLLVKSQSWSQ DPIKFQLPHHHKNTASVCINPSV
23984	54352	A	24122	2102	2529	ETTMSFIFSLLYPFRMHLSFLIVS PALRSISRRAAFAFPRGRSLDLQ PAMPEPPTPS/CGLLCVPS\PPMS AAPCSKVPSHLFAFMSCNTAK VCSFTAASETTSPPGGTNNSR RATLRAVTLTRRSATLTRRSAA SHRSSTV
23985	54353	A	24123	299	567	TAMLLTQSLFGGLFTQTRMKF GAVTQIADLPWEINPLSSCSLL HEKDPPTSSGPQTDQPKHLTN FKSGETKEMHFIRGPKTPAPVM
23986	54354	A	24124	684	822	KVKRQSYSQNTFYYPICSRH*IK LQKLNSGPQTPQQDLINLAIKV

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23987	54355	A	24125	1163	1826	TVLLLTQSLFGGLFIWTRMKFG AVTR/IRGDLPWEINPLSSCSLL HEKDPPTTSGPQTNQPKELLTN FKSVPTPSVAESFQSSFSTDP SD PSSPPQAAPRQAKPGPNSSSASA PRPYNPFITSPHTWSGLQFHSA TSPPPPAQQFPLKKVAQVKGTV KWLKTDAAARSPQKPTGTITDAL DNSHSGGPIMDRPLLVKSPKQF LRLLVFSKTFISLTILNLQE
23988	54356	A	24126	636	922	TATLLTQSLFGGLFTRTRMKFG AVTRIGDLPWEINPLSSCSLLRE KDPPTTSGPQTHQPKHELTNFK SDKGDMFYPTWTQNSSAGHGLG RQPSLGV
23989	54357	A	24127	728	1013	MKFGAVTRI/RGDLPWEINPLSS CVLC/CREKDPPTTSGPQTDQPK EHLTNFKSGKRPAFYSLQPPSL SLNLFLLSILAPHFNLSLLLISIPF IFW
23990	54358	B	24128	1	3993	
23991	54359	B	24129	105	420	
23992	54360	B	24130	45	2866	
23993	54361	B	24131	1	1680	
23994	54362	A	24132	1257	1403	
23995	54363	A	24133	1	2130	
23996	54364	A	24134	1	725	
23997	54365	A	24135	2825	4123	RAADGVITLEDNDPCVKKDSSR FPYEDRLDLVLKGTADIPRLTV HRGSEYIISRATFPCYFIKEQSVI NHCYTEIDLKIFRQYLAPALGV THRFVGTPEFCRVTAQYNQDM RYWLETPTISAPPIELVEIERLRY QEMPIYASRVMFIFRPDNTALP RNDTPQMVKLFMDRFQVVKDI GVIELKVVEDQRTAVMIKFRA FVKEGAVIVIRFDNKEVAFQAM SGNLTVPRSTSDYKARDIFFQY RFLTRISTGHGVANNHQIRLRL ELAGIVPLNQLNALLKVVYPLS KLCNSPKKCQLESVFRLTQWV VKKPISNRQSLGGIVLPGLFRV LSPGNLSPIKGTVILPNEVQPGF LGNLVGPI/RGWIGLS*IYLPHGF TG*QNSAGLADH*RASASPERA GVYPIHNERCAHRASRY*YKW HPDSVAADHLLG

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23998	54366	A	24136	137	1199	ISSGGPRELGLKMIIVPGSQLSQ LPPGLDSTEFAAIVGNLLDNAF EASLRSDEGNKIVELFLSDEGD DVVIEVADQQCGVPESLRDKIF EQGVSTRADEPGEHGIGLYLIA SYVTRCGGGITLEDNDPCAPLT LLIVEDETPLAEMHAEYIRHIPG FSQILLAGNLAQARMMIERFKP GLILLDNYLPDGRGINLLHELV QAHYPGDVVFTTAASDMETVS EAVRCGVFDYLIKPIAYERLGQ TLTGFPQQRKMLKSIESATQKQ IDEMFNAYARGEKDELPTGID PLTLNAVRLKFKEPGVQHTAET VAQALTISRRTTARRYLEYCASR HLIIAEIVHGKVGRPQRIYHSG
23999	54367	A	24137	2	243	RPGRGLGQRGIWEPAAVLLDSV AQQQGAWLPHVADFRWRVDV AISTSALARSLQPSVLMQLKLS DGSADLEKRCERRLQD
24000	54368	A	24138	1	1483	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPPEARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGRRLRRAEDVFPPVI GVAAHKGGVYKTSVSVHLAQ DLALKGLRVLLVEGNDPQGTA SMYHGWWPDLHIHAEDTLLPF YLGEKDDVTYAIKPTCWPGLDI IPSCALHRIETELMGKFDEGKL PTDPHMLRLAIETVAHDYDVI VIDSAPNLGIGTINVCAADVLI VPTPAELFDYTSALQFFDMLRD LLKNVDLKGFEPSDLRYLQSC EWGDTGIFLKWSCIPAEGKLT SGAWVEAADIPLLPGSPRRLSP QAGSRGGQGPKHGQQCLKMP GPRAPGLQGGSNRDP/AP/GPAV ERAPAAALSSTTIWMPMSLCP WRPVLAACSTMTVRGRSTMYL PTTTGNAGCTWPKASLATRWL SSPMGRQARSLMLGAQVTLWS DRSMPWRRRGRSSGRNLSTI

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24001	54369	A	24139	727	1498	GICIWDRPPGLADQRRSHSHGW WGELATPLPWHH/HLSDSHSG\ RVSFLGAQLPPEVAAMARLLG DLDRSTFRKLL\KFVVSSLQGED CREAAA AVLGSAPTCCR\AAGC \LLAGMHTLLQQALRLPPTSLK PDTFRDPAPGALHPPRPGRGL\G QRGIWE\PSGPSFDSVAQQARV AWLPHVA\DFR\WRVDVTIST\S AL\ARSLQ\PSVLM\QLKAFQNG SSIPAFEVPPQPKF\QEL\YSVA\ LV\LKEMADLEKK\CEVRLQD
24002	54370	A	24140	1	312	
24003	54371	A	24141	2	524	
24004	54372	A	24142	144	494	AGSCPFAAGPGPLGSGRCFVLIR FILI\QNRAGKTRLAKWYMQFD DDEKQKL\EEVHAVVTVRDAK HTNFVGVS\GTFKIILPPLCWPLL LASVWMFNDNKPGLYLGGPFH NFRGRS
24005	54373	A	24143	1	428	
24006	54374	A	24144	108	422	
24007	54375	A	24145	3	387	
24008	54376	A	24146	3	337	TRLMLLDRSGQGKVYGLVGR* RFQQMDVLEGLNLLITI*RNRN KLRVYYLTWLR\KIMDNDPKLE KKHDWTTAGYMEGCGHYRVG KYERIKFLVIALKSSAEVYAWA PKPY
24009	54377	A	24147	1	340	ERTRMNKQHNSTLAKSRPGNT GPEPLMPQASPGPPGPLSQTPP MHRPVEPQEGPHKSLVAHRVP LKPYAAPVPRS\QSLQDQPTRN LAAFPASHDPDPAIPAPTATPSA RGAV
24010	54378	A	24148	335	869	ATPTLILSQKSHFWPQLSSVLK LTSGPEISLQSSPSPICRMKKRR LSPLASGLES*VKSGEWCEVLS RAPLFP/HNPSQAAP/EWEMQG TRPSIPHPLGLAGLPTQLQQGRL WGYRNPASPFRTVAARDCAAG KQVRTGPDARLEGSRPGVRAG LGWGRGYSERVQTCAKSSVSPS
24011	54379	B	24149	158	5640	
24012	54380	A	24150	1	1854	

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24013	54381	A	24151	1	1510	MPCGKQGNLQVPGSKVLPGLG EGCKEMWLRKVYGGGEVWGK SPEPEFPSLVNLCQSWKINLM STVHSDEAGMLSYFLFEELMRC DKDSMPDGNLSEEEKLFLSYFP LHKFELEQNIKELNTLADQVDT THELLTKTSLVASSSGAVSGVM NILGLALAPVTAGGSLMLSATG TGLGAAAAITNIVTNVLENRSN SAARDKASRLGPLTTSHEAFGG INWSEIEAAGFCVNKWKAIQG IKDLHAYQMAKSNSGFMAMV KNFVAKRHIPFWTARGVQRAF EGTTLAMTNGAWVMGAAGAG FLLMKDMSSFLQSWKHLELDG ARTETAEEELRALAKELEQELD RLTQHHRHLPQKASQTCSSSRG RAVRGSRVVKPEGCLATSQPH QHQQERGDRPREDTDNEKRGG EKWSDFGSVLKGEPTGFVHGL DLWCEGKKSQDNGGLWPEQL AGWSCWHLKWTGGSRSGLPVP VLDAACTGTLSPLDTSWRYHPS SIPLPKQPLQHGF
24014	54382	A	24152	3	515	VGTQAGAAPGPVQFLSSAWVA L\HETELPPLTAREAKQIRRE\IS R\SSKWVDM LGDWEKYKSSRK LIDRAYKGMPMNIRGPMWSVL LNTEEMKLKNPGR\YQVRSARA QPTGQAVSQAQVSSWRERQDH PGELGVKIMKEKGKRSSEHIQQ MDLDVSGTLRRHIFFRDRYGT
24015	54383	A	24153	1	1317	
24016	54384	A	24154	1640	4841	TITGSSPLAGGHHSTCRGRMDM VENADSLQAQERKDILMKYDK GHRAGLPEDKGPEPVGINSSIDR FGILHETELPPVTAREAKKIRRE MTRTSKWMEMLGWETYKHS SKLIDRVYKGIPMNIRGPVWSV LLNIQEIKLKNPGRYQIMKERG KRSSEIHHDLDVRTTLRNHV FFRDRYGAKQRELFYILLAYSE YNPEVGYCRDLSHITALFLLYL PEEDAFWALVQLLASERHSLPG FHSPNGGTVQGLQD
24017	54385	A	24155	1640	4056	

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24018	54386	A	24156	479	3902	GQVDEDVSVKMDTVPGVNLSC ILNEMRDQDKKLVEKSYKDAK GCGFSMGEPSLIDPCLEV CYGT QLAQLQGLIRSMEEQLCELCCD AEHQDHEHQVLLDVKTRLEQEI ATYSRLLEVEDAQGGPIVMRA MTSECHWCLAPIRSPDCVCVLR QLHTRSGIHKRF CGLKGFLPER HNPGQLIHQNQSGCCSRMYPFD RKLGISVALNIPGGRSYRDLWC LTAVHIHIPGIDHRLFTLGRM DMVENADSLQAQERKD
24019	54387	A	24157	780	983	QHQLIGHKYQRSHRSL*AEPE* LECHQPD LAEPADGPPLTTRYG IVNAEMGLEQLLPKGPSLKEAK
24020	54388	A	24158	773	2016	DWPTLRENKREPTLKYWGLVP LISGMPTWFFFFLSACGNLIPSG GIRVPMENML/RVFR AVEEHCP WFPEKGTLSVEQWDSVGAKFQ ELVPTGNYVPITVWGDWALLL QFSESGDPLPLQLSSPTGPSLS DQPLPSPTPPPPDDVENSISNSG DFGLTLPPGDLILFPEEPLLAAS AAPNRTALGHIYANSSLFKPLQ HLPLESANGSGAKLQFTYNSAG PSPSSAAPRPVVSVPQVTLPS TQAASLYPSSHMDTSNHQCTSA SSAPPMPLSHTLIPSDETTCNVF NYPLKKPTGRELREAKNKGSQP KVHEKTNPGNIRCISTEERPHEN KGFNHLLEWLAEKTTIHLLDC WFIKDVNREQPDGRDAGDKR LCVKFLREIAANTYKTEVGA AK VMEILLHSHGATTIAN
24021	54389	A	24159	365	675	
24022	54390	A	24160	1	1191	

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24023	54391	A	24161	363	1434	QQGVCSGEKGGHWAPRQVG YLLPGRVGCVSSRVSPSPG LDGLARRGSASALASGLVEE PMLGPPFHPTPRFKA VSAKSKE DLVSQGFTEFTIEDFHNTFMDLI EQVEKQTSVADMLASFNDQST SDYLVVYLRLLTSG\YLQRESQ VLRALHRRVDGTVQRSSAKQE VEPMCKESDHSHHCAGPGPS ACPSRVGVHGTAARAAPPIRTS F/H*GVSPK VYLLYRPGHYDI LYKLGLGSSPLGCPGCPLLARA LGHCYRGFSVVVNGPISPSSCH MTPPPCFIKGGAGGEPVVRPA LLPAWLLCLLPPPPRWVPLLFT YLLLSFPNRSRFEGPGLLEAPPA SLGSASFPS
24024	54392	A	24162	2	888	VFRSRHQGCKMAAEEPQQN QYPLGSDSEGVNCLAYDEAIM AQQDRIQQEIAVQNPLVSRLE LSVLYKEYAEDDNIYQQKIQD LHKKYFVHPQDQGLTGTCFYS GFRDSPTWEGTCWIDSKELQRF QGLVS/SQRSKGKTLVSQGLSL EFHNFEGFSTTTFI/VDLIEQVEK ADLCRRPCLASFNDQSTSD\YL VVYLRLLT/SRAYLQRESKFFE FNEGGRTVKE\FCQQE\VEPMW QGEATTSTSLALAQAQSVSIQV EYMDRGEGGTTNPHIFPEGSEP KVYLLYRPGHYDILYK
24025	54393	A	24163	3	819	EGATMAAPPQPVTHLIFDMDG LLDTERLYSVVFQDI\CHRYD KKYSWDVKS LVMGKKALEAA QIHDVLQLPMSKEELVEESQTK LKEVFPTAALMPGAEKLIHLR KHGIPFALATSSGSASFDMKTS RHKEFFSLFSHIVLGDDPEVQH GKPDPIFLACAKRFSPPPAME KCLVFEDAPNGVEAALAAGMQ VVMVPDGNLSRDLTTKATLVL NSLQDFQPELFGLPSELEGRA SVFRPQPTLMVHTAGGKGKEIS NSSIPTCAVILAS
24026	54394	B	24164	115	594	
24027	54395	A	24165	4	160	SIIFPAIPVSLK*IKPNCPEPPPDH LLQAAWGC VSLGQGLSYSALN TLLYFT

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24028	54396	A	24166	88	2280	VPLYDRMGGETGLLIPSPFRSL HAATDAHSCKNRHSLTGKTDS LWQQDTKLQTRPKATQGKGES GGCGPHRPLLLRTRKSTPESKS AHDPPVAPAQAGASGCGRGAA QKGFGAKA AVDGGQGRDRTPG VPAAGPPTSSGRGDRGPSSSR TRSQTPEPTGRPGSRQFQAAPP PSHHSRPAHAPFGFQMYRGPL YSSSPAPATPNTSAYESPRFCST SYISSSPRFCPTSYICSSPRFCSTS YICSSPRFCSTSY
24029	54397	A	24167	2	352	WRTLIVLGMSCLSYYPK*MHLT HLIHCS*EARSVLTHIPLTICG EPRNIIKLVGCP*IQWKK**KKI MNSRILSPSFRSRY*TSNLLGLP *LRGLSPVERELKLWTRHKLL
24030	54398	A	24168	2	252	NKSSVFATSCSLDPISIMSLM*W TSVISCRSKK*SRSLRIRL*HKA KELIYPLPVRESMWGYCQLLS MSMPIMHAGTGEMTTG
24031	54399	A	24169	1505	1680	RTSSLVTL*TLHLEPAGT*VLTP GSTTGITVSGTVLFLILLSCFLSS TPFRLKLACLS
24032	54400	A	24170	681	932	
24033	54401	A	24171	1740	1950	HHHHLLQMSWSAGMQAWHW PSFYNNVTGKTLA/LPNLIALQH IPLSPAGVIAKRPAPIALPNSCA ALLSSQ
24034	54402	A	24172	1	652	GKLTEARTRCCMQLTSDRHRH TALNHTTCSHHCNSGVMAGRL GPITVLSGD\GPKGMRALTMW HTLARPTGDLEAPRHGRPRRIT ATQPDHAPPATSRNRAAHP\HN HTP/PHPQTAH/PTATHSHLTyr TPRPTPATRTPL/HPHSHQQYPY Q/PTQRSPYLHPPPAPPHISLHPS TTRATVNAPDTRPTIYARESVPF GRLLNLGRQRGMELANILQVH GP
24035	54403	A	24173	267	400	RFLHCGNLAGLLVGFLSFKLGE YEGLGPLAALTAGKGLFFLPLE SRLRLHRRPKPRSPASFG*VSRH THAIHFN
24036	54404	A	24174	422	452	
24037	54405	B	24175	131	1047	
24038	54406	A	24176	2	199	LGLR/CARLEARARPPWATVRE KLWLFQHPHMRCSWRGLFQD DLGLQKPLSGGSSSAYRGCENL NS

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24039	54407	A	24177	440	1746	RNLQCVFQGRKEGIPVLALS/L RPSP/RVLHTATKQKNSCQHLE EDVD\QTKWRTDTPSMDKILME EVKLEEQLKEAVEEDKQALAD TEGSEQSSQKLVEEGNMYSIQG FCKDSLEVADVLEKATQCVPEE EIKDNNPHLKNLCETLTMSEEL SQMVDCCLRPQDVSVLGVALH WVTPQMLCVPVNEDIPEVSDT VLKAITAPPRVPIGRTSGDVTGT GVRRRRVSSAMSQHRAFRDVT VTVQCLELGCFLLRVELASQFL KRPRSPESNEKVPEIEVTVEASA KMSHPTLYDATRSPWGMFQSQ SVLLSCAHHSLLRGATLDRCGS IDEESEWYGMDTFECTGVGVSI RRATEPERSSGSAAALDSHRSM HPIVNHACEGSTLRCPYENLMP DALSLSPILSSRSGDASPQAEILP VVGPFMRMRCLTVDPPLDVT
24040	54408	A	24178	391	656	

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24041	54409	A	24179	1	2150	MEDSTSPKQEKENQEELGETRR PWEGKTAASPQYSEPESEPLE AKQGPETGRQSRSSRPWSPQSR AKTPLGGPAGPETSSPAPVSPRE PSSSPSPLAPARQDLAAPPQSDR TTSVIPEAGTPYPDPLEQSSDKR ESTPHHTSQSEGNTFQQSQQPK PHLCGRRDVSYNNAKQKELRF DVFQEEDSNSDYDLQQPAPGGS EVAPSMLEITIQNAKAYLLKTSS NSGFNLYDHLSNMLTKILNERP ENAVDIFENISQDVKMAHFSKK FDALQNEENELLPTYEIAEKQKA LFLQGHLEGVDQELEDEIAENA LPNVMESAFYFEQAGVGLGTD ETYRIFLALKQLTDTHPIQRCRF WGKILGLEMNYIVAEVEFREGE DEEEVEEEDVAEERDNGESEAH EDEEDELPKSFYKAPQAIPKEES RTGANKYVYFVCNEPGRPWVK LPPVIPAQIVIARKIKKFFTGRLD APIISYPPFPGNESNYLRAQIARI SAGTHVSPLGFYQFEEEEGEEE EEAEGGRNSFEENPDFEGIQVID LVESLSNWWHHVQHILSQGRC NWFNSIQKNEEEEEEEDEEKDD SDYIEQEVGLPLLTPISEDLEIQN IPPWTTRLSSNLIPQYAIAVLQS NLWPGAYAFSNGKKFENFYIG WGHKYSPDNYTPPVAPPVYHE YPSVPEMAEMDDPSVEEQAF RAAQEAULLAAENESEDEDE
24042	54410	B	24180	1	489	
24043	54411	A	24181	39	423	RSPTPDAASRSQCSSRRRRGVS KEVFVSMARTKADWPANRTG G*STPRKPTGPTKSPLRKSAP/A PTGGGERNPHRLQGLVTVAAP* NLDGYQKVHNSFLIRKLSLPSV WVREIASGLLKQNLRFQERQ
24044	54412	A	24182	3	384	
24045	54413	A	24183	1	434	MLQNVTPARAEWQRKTALQG VEDPVPARPPISSPEDLLRSSEC STAPTQRQVPQPVHE/SHRPTQ DSPGARRKPTSERGHTEQRAAP DREARPATRGWGLRPGGQWL GSEHAAAAPGPSDHPRGRCRH HTILQRPRLLSGKTES

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24046	54414	A	24184	15	286	LPSRGAWLGTCSPPCLSLPPP WAPVRPEPPR*APPPAPRRPVPS TTQGS LGPHCFYEL*HSPRRSA ASLLKPARPRAHQEERTTPDAP P*EL*HSP*RSAASLLKPARPRA HQEERTTPDAPP
24047	54415	A	24185	2	214	CLSLPPP WDPVRPEPPQ*VPSP APQHPVPSTTQGLRSVGARRGT GRQLHLQSRCGIHWVKPAGLL SLGL
24048	54416	A	24186	308	311	LPSHGAGLGTCSPPCLSLPAAP WAP/RVARASPTSAAPTPQHPV PSTTQGPLGSPSTLRKL*SFALC NKSCCCLFGLSTLPL*AVTLTA KVCSFTPKA\ARP
24049	54417	A	24187	1	669	MMNEGSGISLSGCDLGTALQLL SQAIVECLKLFQMLNRSTILGSG GQQPSSHSTKLRPDGAQLAS PSGSCTGAAGGAACQSRTVCSH SSALGWSMGLGAVEQGVVLV GEAQAAQEPMEGVGGSGMAG CRSRALPHGKAAKARRAIEHST GGLALLGDPVHSPQPLARVLS SLPRASRAGW/PAPSAGPPSPHP PGTPAGPQAPHAAPVPARASPS TPPCKL
24050	54418	A	24188	157	395	RCSSCQREMPY GK*NVQKRL KTTKNGSM*LKSHILSTPEQ\PA SPTSS/PPLLQPAAPAPPLMPRPS PPPGISVA*YPGM
24051	54419	A	24189	2	287	CLSLPPP WAPVRPKPPR*ATPP APRRVPVSTTQGLRSAGARRGT GRQLHLQPLCGIHWVKPAGLLS LVGTWRTFMSSSGIVNTPISTLC LAQGL
24052	54420	A	24190	500	724	
24053	54421	B	24191	1	2154	
24054	54422	A	24192	688	1215	SRLAPALLSPWVVDGTGRCGA VGGAHWGGLGRTGAHGGGGR LRHGGLRVSPAPREGS*GPPR YRAQRWWAGT/DWRTQYTLRS CWPGTLPSK*REMPY GK*NV QKRLKTTKNGSM*LKSHILSTP EQ\ASPTSS/PPLLQPAAPAPPL MPRSPPPGISVA*YPGMPWTC PFYWQ

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24055	54423	A	24193	308	1131	VLQLLRRTWSCSLRAWSWDL IVPPGGLVVS LASGVKLQTFV SVTALKEARLDLFVPPGGLVVS LASGVKLQTFVSVTAHKSSV DPKNSGAQLASPSGSR TETAGG AACQSRAVRSHSSALGWSMGL GAIEQGAALVRGGSGRTG\PM WVGSGMAGCRSRALPRGKA AKAQREIEHSAGGPALLGDSVH PPQPLARVLSPLPGASRACWL LRVRGPPSPRPPGTAPGQAPH AAPVPARASPSTPPLVHLTNDV LRVKVKWAFFFTLHK
24056	54424	A	24194	192	818	SWCLSRAVVGDSMTSEVIED\E KQFYSKA\KTYWKQIPPTVDR HAWGEGPNKTGTSCALDCGAG IGRITKRLLLPLFREVDMDITE DFLVQAKTYLGEEGKRVNYF CCGLQDFTPEPDSYDVIW\IQW VIGHLT\DQHLA/ESFLRPCKGQ ASAPNGIIVIK\DNIA\QEGVILD D\VDSSVCRDL DVVRRINCSAG LSLLAEERQENLPD
24057	54425	A	24195	1	233	FFFETESRCVARLECSGAISAH CNLCPLGASNSPASASQ/CSWD YRCVPSRLANFLYFSTDGISPC WPRMVSNLLTS
24058	54426	A	24196	240	476	LLPQYRRVLLIYSGIQLLPGLGL RRRMCPGIYSFLLDFLVYLRG VYSIL*W*FVFVVLVPWFSAPS GHLRSSLCLF
24059	54427	A	24197	288	677	NLPEDVVPDDKPHQPLLRV\VC LFVISKDLFLESPFESPIWRMYP NSTVHIQRLELALLC/CHCPRAL PASAHSCHSLERGLPICKE**CM PCSEYTIASQRPAGGAPAILPEC DSRRRTTQATSEPGSHI
24060	54428	A	24198	99	399	LLCHGFEHPPLAQRSLLLPIV*S LLLSTRQSHSPSSFVPLLARSCG SWVSPAEEAEPQILQKGKCSCL IVPLEALCQRGTRL SLWLPTFF PSFQLWPV
24061	54429	A	24199	1	586	LSFFKVFSFFAIGSNILFSSEKFII TDHLKPSSPTCQSHSLSSFVPLL ARVAFRWGFVDVLSFVSFPSN SQDPQLQVCGVCWRSTPDRLP GYHQRGSGGCR TADIIEPQMLR LIVRLEVLSQRSTRPQRCQ\SAL LGGASQLGCC/GVRDLLEEAVC PFSDL/KLHAGKTTTLFKA VRQ/ SHLSLQRLLSFVCLCPT

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24062	54430	A	24200	1	822	
24063	54431	A	24201	1428	1801	RSAGIDPE*FFSG/PRRIHTASCL PSQRSSNRACSSSVTRIVSILSRF IGIITPMNRNPRFWRNSTSWTR MNRQTSVNRFTTTLMSFTAAA SRVSVMTVKTSDDTCSSRRRSQ VKYHLSISTQVL
24064	54432	B	24202	1	2040	
24065	54433	A	24203	176	564	AWEPKWYSTTATRTHFWEMRS RSIMSTTKAFSTSNASDSLEEP SSRKTRSSSLLQ*KSCNGGSEM SSTYRVVGLTGASLSASALNSLI DSRSNR*V/FSRNTLANITRRNQ LKMLPAPDPDGFSSGSPFQ
24066	54434	A	24204	1	774	
24067	54435	A	24205	1	1807	MPLRAFNPVSSFRWARGMTIV AALMTVFFIMQLVGQVPAALW VIFGEDRFRWSATMIGLSLAVF GILHALAQAFVTGPATKRFGEK QAIAGMAADALGYVLLAFAT RGWMAFPIMILLASGGIGMPAL QAMLSRQPNFDHWTADRHGD LCRLGEHMERVGMDCRRRPIPC LPPRVASRCMEPGHLDLNGSRR HLANGFTTPRIGANQFLRRTVN AQTNPWQNISIASAISSSRTRRIS GSVGSWPRSGNAEVSALHHYV PDLHRRMLLATLWNTYICINEA LALTLSDFSLVPPHPYRQLFTLT TFHNRACSSSVTRIVSILSRFIGII TPMNRNPPYTEASVTKQEKTA NMARFIRSQTLTLEKLNELDA DEQADICESLHDHADELYRSCL ARFGDDGNSYDHDYAKLACLQ VEGRGGGTFAHELLAVEYAGW ISPAFRLKVMHWMNRMLDAR NRDRYKQWKQDFFHDSYNRQS AGHILSQCANLAATTSEYFIHKP HRLIAAETGYSQSTVVRAFREA VNKGILSVEIVIGDHRERRADL YRFTPSFLVFAQQAKNALIESKS KISSAATKVRLAPISPTSPMG KIGLATSGS
24068	54436	A	24206	291	851	
24069	54437	A	24207	2	694	
24070	54438	A	24208	2	331	HLSTIEPEDYNLLFRRVSLKLSV WLPTWQSKSNGWSKKCLWMH LKSNNPLNALLPPAGF*SATMPK CSAWAKTISSPGCVITEF*SQPV NAGTSPNKNTYLVGISPLKKP
24071	54439	A	24209	1	4455	

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24072	54440	A	24210	698	1088	LTSKFIAAVCMRRISLCGKGSA QNTDSGIAATPCSCVSD*QNSTS SRIRM*PWMCPCPMKRKSAT*N ITLRC*RAAPPISSVRK*/MSM Y/NHLQSAECGGHRFPVPQEE SILLLLHLIANRSSACHSIR
24073	54441	A	24211	1	1902	
24074	54442	A	24212	1	2898	
24075	54443	A	24213	1	2604	
24076	54444	B	24214	1	1254	
24077	54445	A	24215	1	2946	
24078	54446	A	24216	698	1285	RFWRNSTSWTRMNRQTSVNRF TTTLMSFTAAASRVSVMTETA MTMITPSLHACRSKAVAAALLP MNCSLWSTQAG/CSP/DVSAEG KPDYRLSNRKITTCYSAES/LL KLSVWLPTWQSKSNGWSKKCL WMHLKSNSLNALLPPAGF*SAT MPKCSAWAKTISSPGCVITEF*S QPVNAGTSPNKNTYLVGISPLK KP
24079	54447	A	24217	1	1986	
24080	54448	A	24218	1	2262	
24081	54449	B	24219	1	1014	
24082	54450	A	24220	1	1155	
24083	54451	A	24221	5	386	
24084	54452	A	24222	1922	2146	SSSAGISCWSSSPTPGSIPSRVGS AAA*GWTTSRSSTGSANPSASR KPAAAIRASMPPNCRSGEARWP LWSGSL
24085	54453	A	24223	1091	1435	
24086	54454	A	24224	1	2919	
24087	54455	A	24225	1324	1502	
24088	54456	A	24226	1	2901	
24089	54457	A	24227	5	253	
24090	54458	A	24228	1227	3031	

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24091	54459	A	24229	1	1940	MNRQTSVNRFTTTLMSFTAAA SRVSVMTVKTS DTCSSRRRSQ L VCKRMPGADK PVEGRGGGTFA HELLAVEYAGWISPAFRLKVN QTFIDYRTGRLQPAIPQSLPEAL RLAADLAEQKQRLEQKMLMD APKVEFAERVATASGV LIGNYA KVLGLGQNYLFTWLRDNGILIA TGERRNVPKQEYISRGYFTLKE TVIDTSNGSRISFTTRITGKD VV RTTSIVMLAKVTF LSCITMSDFT FSGYELACFVTHSGLSR SAGHIL SQCANLAATTSEYFIHKPHRLIA AETGYSQSTVVRAFREA VNKGI LSVEIVIGDHRERRANLYRFTP S FLAFAQQAKNALIESK LKISSA ATKVKA VLAKTLALFNFLSTPP CQNDTPSPCQDDVAIKNKKSQ VKKTKRSVSGGAGTTS LKKLTS WIAKAKAKADNLR LSKKRTQK HEFKQKVEAAARKYAYLKNKR SPDIGGISNFDNLPHCM TVNEA LNAVLA KNKDNEQWGAVAGA YIADITDGEDRARHFGLMSACF GVGMVAGPVAGGLLGAISLHA PFLAAAVL NGLNLLLGCFLMQ ESHKGERRGELLKIVVLP GDHV GQEITAEAIKVLKAISDVRSNV KDFDENHLIGGAIDLQGGG GK PRCVSKSLMLHCTR
24092	54460	A	24230	1	1230	
24093	54461	A	24231	1	799	MKPRTYTVSVTAVK DGVSGVC SFRCS DVS RVSS FQWVRGLADF RSEAADLHNSGAQLASPIGSRT GATSGAPCQSRTHAPALLSLW AVDGTGRHGAGGSTRRQ GSGG TQEPMVAGKAQAWRAAGFSG SGDGVGV SILVPWGGTCIGSFR QANSWISGGAFSDAGCDSRL GKDWSNLEGSEERKMWESLE LPRDLKSS EDRKMWESLELPRD LLNGFDQNA DTICTMKSRLRW SQMEMKNLLGTGVNVTLV ML* QRDWRHLLLV
24094	54462	A	24232	416	775	
24095	54463	A	24233	548	882	PGGHQYPPCHLEEKETDLPLLY TAVEEKGLSYSIIPGSLVEKPLT STNSSGTPIQS NITSL* IPLAGIMS MAASQN*AI*WPLAPTMQSFTC TT*RLS*SHRRSWWHRGCT
24096	54464	A	24234	144	570	

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24097	54465	A	24235	254	1117	LSRMKLRTLVVSVTVLKD VVS GVCSFRYSVDVSGVSSFQWVRG LADFRSEAADLRGLKLQTFVVS VTPHKGSVDPKSDQQRDLLQR VKEQNFRNVKGDPAALAHEDD VNGTESGAPRKHGDREDDVV ITNPHEAILENKDWIEDASGLM SHCIAILKICHTLTEKL VAMTM GSGAKMKTS AIVSDMIVVAKW NSPRVDDVVKSMYPPLDPKLL DTGTTTLLSV\SHLVLVTRN\A CHLTG\GLDWINDQSL\AAEEH LEVLREAAL\ASEPDKGLPGPEG FLQEQSAI
24098	54466	A	24236	472	844	RTDGVLVWMSFLFVSFPSNSQD PQLQVCWSLLEVHSRCLPGYQ QWRLLCPHEITGESMSKLHIIQK YTSSCCLFKSSISERGSSTPCPSW LGSGEGLSTLHATDFSFSAPMA QRGKSSLVSLE
24099	54467	A	24237	206	456	
24100	54468	A	24238	50	392	LGLLPFFHRCPTQRGGI*RGSLA TAALLSCGGLCPVGS\SRHLCL\ PVRGKRPTQASVMGDALPPTK LECPRSASGCCAGSDNFKPVDL SLLSSMGLGSTELDHLAPWLQP PFQG
24101	54469	A	24239	1	204	SFSVQFCSLVGDPLG*SSCDPLE EKRCSGFWNIQPFCAGFSPSLW DYLSLVFDVDDLQMRSLSGCPF
24102	54470	A	24240	1	375	MCNAQVLEYMGKSSSLLTSDL QLVRDALRSLRNSFSGHDPQHH TIDSLEQGISSLMERLHVMTQ KKQERKPPLVIPRQT/WVWSGP PANSNRPA AEGPDC*KEN*RDA LRSLRNSFSGHDPQHHTIDSLEQ GISSLMERLHVMTQKKQERKP PLVIPRQTGSGVDLQQPTDQLQ LRDLTVRRKTNEQKGIASASTK RTSTPKPHL
24103	54471	A	24241	1	674	MVVYACSPSYLEAEVGGSLSLE VEATNPKNSSKKFLDLISEFCK VSGYKISVHKSVALLYTKNDQ AATQIKNLIPFTTAAKQFKYFGI YLTKEERLKP SRKKITKKHTK KRTASLILHAMICSQIPKQQNE KYQVPQFDQSTIKNIESAKGLD VWDSWPLQNADGTPPLVIPRQ T/WVWSGPPANSNRPA AEGPDC QKEN*QTERNSINIKKKDIHTKT PLCI

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24104	54472	A	24242	1676	1768	
24105	54473	A	24243	270	471	PSREYQDANPWLKWIKYSVRT LNKSDCYASGYK*ACLLCSVYS HGKAAGECTLSAGSKNGLAEVI KK
24106	54474	A	24244	23	200	AQMKAHGRSRSS*RC\DEEHW ACRAQEPPCSQSQRERSKRTCR QGTVASKVKCHSEAR
24107	54475	A	24245	3	270	ASTSHVPQICGLDDLAIHSAV RLNRERVHSTAVLP*EYTKQRR QGHL*PDPYKKEGAATNEDAL LLRWERGRGARLHIPGCKAPQL
24108	54476	A	24246	135	275	
24109	54477	A	24247	365	583	
24110	54478	A	24248	2906	3114	
24111	54479	A	24249	108	405	NLHTPYRPQSLGQGEPLDDYV NTQGAS/LFSVTKKELGAGSIEE CAAKCEEDKEFTCRYFHCRCFT LSIPQVTSSFLCFPLPLLLKSSK LLANRDKYRM
24112	54480	A	24250	1	386	
24113	54481	A	24251	1	808	MSYSQCVSDPKAHGILPGYHC WLFRDQGLLKSQHVINPAKAST GFFLQDTLMVLEIKTTIRNYYK HLYAHELERLEEMDKFLDTYT LRRLSQEVIDSPNRPIMSSKIESV KGYTHQQFCHKSTLNKGDRVI DNLTCPPYCCVWFPLAGTGPHI LYLSRLVSNLELFKRGKGRGEQ RKEEVTGMLRKS\VTSDLPEP GGVTSEGCETAKVTACSSLWE LCHREVLTPYCPKDTCKWLE TPVRRSCPVRRSRISTCLRKKFG HILAEQLSCA*RCL**FL/YGCFY FQDHECVLKEESSTSFGRINHV LTLKEPLVPE
24114	54482	A	24252	833	1245	ANMFPAFAA VAAGAATEAAA AAAAAPAPLAPARRAAAAARG PPLPRLP/WSCAEVMYHPQPYG ASQYLPNPMAATTCPTAYY/RA GAPTWPAGESPDGQPAGGGGE GHREYRSGARRRPA GTRGAED ALGSAGASLSRKP

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24115	54483	A	24253	145	766	TGCIREKFHLPEGSLIVSSRKH LQRLAFQAKVSSMMLPLQGAQ MLQMLEKSLR\KSLPRNPLKVY GT\VFHINHG\NPFNLKAVVDK W\PDFN\TVVV\CPQ\EQDMDRW TLDHYTIT\YQIYSKDPQNCQEF LGSPELINWKQHLQIQSSQPSLN EAIQNLAAIKSFKVKQ\TQRILY MGRLETAK\ELTPFLAGNQRLS PSGW\AKPKAM
24116	54484	A	24254	215	550	VGFRSCLVMSGRGKGGKGLGK GGAKRHRKVLRDNIQGITKPAI RRLARRGGVKRISGLIYEETR VLKVFLENVIRDAVT\YTEHAK RKTVTAMDVVYAL\KRQGRTL
24117	54485	A	24255	3	292	TLLNLAAAHCSGPCLLWFQLSF RSPSTSAVGRCRPSADFHPSRS SRVSAVLLIQ/QRCPLPILIQKKA CHCSCTAKWLGSSPKPETFFEII HPSPS
24118	54486	A	24256	1	789	
24119	54487	A	24257	3	256	TLLNLATALSSGPCLLRLELSFH SPSTTAVCCRHRPAADFPPFGR VSSLLLIQ/QRCPLPLLIGLKACQ CSCAAKCCVRPNRAEQ
24120	54488	A	24258	3	212	
24121	54489	A	24259	2	491	
24122	54490	A	24260	20	272	
24123	54491	A	24261	160	876	
24124	54492	A	24262	623	796	GANSWNLTGTLAVKAGTVENP I*VFATHVESAGPR*LDPRTGSL AVRTKGRHWDQGA
24125	54493	A	24263	242	659	TSNSPPQTRPHVCHGPRQYLLQ LSSRDLEFLVQIAVRSCLCPLR IRSPVFVAVASTSTFGTLRGKVV KDFGFVFPPPWGQPCLCVPEER ALSCQGPVVD SRCPRCGHEGM AYHTQQMRSADEGQTVFYTC TNCKFQEK
24126	54494	A	24264	66	238	
24127	54495	A	24265	2	278	
24128	54496	A	24266	168	565	TENFRALSTGEKGFYKSSCFH RIIPGFMCQGGDFIRHNGTGK SIYGEKFDDENFILKHTGPGML SMANAGPNTNGSQFLICTAKTE WLDGKLVVFGKVNGMNIVEA MECFVSRNGKTGQKITIA\DCG
24129	54497	B	24267	20	88	
24130	54498	C	24268	183	254	

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24131	54499	A	24269	412	590	KSGLATQG/GRRRGWVFLAPQ KGEGVETQREGVGV LAP SPE KRD LPLRVKDQ GRRPCVV
24132	54500	A	24270	550	852	
24133	54501	A	24271	207	381	
24134	54502	A	24272	412	589	KSGLATQG/GRRRGWVFLAPQ KGEGVETQREGVGV LAP SPE KRD LPLRVKDQ GRRPCVV
24135	54503	A	24273	191	235	
24136	54504	A	24274	95	375	AEKIWEGVSQRALGQSSRGSGS GCQMNP LSGRPQVVCFFTAHM LTKKREEGASMLNMP CFQ*KE EMIQANLGPIADSSHCLGIEGPP WAPLTP
24137	54505	A	24275	144	293	WQVPLFWQPFPEPELELWPKAL* LTPSQIFSD*RLKTDAARSPRKP PAPR
24138	54506	C	24276	1	909	
24139	54507	A	24277	1	1744	MGCLGTQRAPRAFLLLPLPLHF AQLSNLTQLQAAASLSMVTHR SSGGGGERGATAAGTEQGGAC LAASLLRGLWDAGEVTPIRVRV RPYDPFTLAPLHEHSEAQCVAS PSLTVTKEKSLLPKSLLAGSREV ARSRALCHGQARPPRPQVTQQ RTQLQGQRILQWRPATEGPHSP RRGSDSAKGTHPPTTGTCPPRR RQGAGYSRYNSGESRRRLGRQ QDLVARSDQ RDPAPATRRED KMIEELQPFGEHRPRRSPSQGC DTLFQALWFLASPSFQGGQLQ VLALCKAAAGPGAPQAAS TAG TREHGYAWKLG DTRNHRALK RKSQTLWLRFPAGCPDVCSAL ADLRAF MGLRGEEVCADWSM GGHGS GECRRGTGGQRAVVPK SPVQEK GKEPLSLLQYFMVDEK ERFLRITSEHEDNDNSNNSSNHS SINETKETCFIHEPKTPAPVTDW EGSLPLVFNHCRDASLIHSCFK GVRPHRDA CLG/RFTLSGK/FPL SWGRGKYPSTPSPSPLAASPTFL GQGQELVTSARNLTTRPRNAC GPGFLLSHVPSVRDPTGNRTVQ LTWQPLPEPELELWPKAL
24140	54508	A	24278	2	120	QSSAAKPR TSGKGSVREPWAR VPGALGVAAR*AEQSDFQ

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24141	54509	A	24279	1135	1483	ILTMTGSLSCTPSNAVIEKV*VC CSSLSTG*SKV/QVASNTSLCDG ED*GVVIQKKVKLWVFCIFYVL VQSYYS*R*SQIETVRNGCSHW GRFQDIALITGHCKIWTLLIVFIQ YFNV
24142	54510	A	24280	1	860	ATTGGTNLRDDIMRLDDTVHV VIATPGRILDLIKKGVAKVDHV QMIVLDEADKLLSQDFVQIMED IILTLPKNRQILLYSATFPLSVQK FMNSHLQKPYEINLMEELTLKG VTQYYAYVTERQKVHCLNTLF SRLQINQSIIFCNSSQRVELLAK KISQLGYSCFYIHAKMRQEHRN RVFHDFRNLGCRNLVCTDLFTR GIDIQAVNVVINFDLPKLAETYL HRIGRSGRFGHLGLAINLITYDD RFNLKSIEAQL*TEIKPIPSNIDK SLYVAEYHSEPVEDEKP
24143	54511	A	24281	848	1218	PMQRKSMKISVS/PVSVQKFM NSHLQKPYEINLMEELTLKGVT QYYACITELQKLAETYLHRIGR SGRFGHPGLAINLITYDDHFNL KSIEEQLGTEIKPIPSNIDKSLCG AEYHSEPVEDEKP
24144	54512	A	24282	241	477	
24145	54513	A	24283	38	208	MTAGAPPPPPFETPEGV*GNP TCSGG*EDASGSTRSQRHPVGL PVSCALRACHLK
24146	54514	A	24284	794	1455	AQQGGTSKKRRFPQDGQQRAG LACSRPPGPGGCGFQAPAGERY PNIKPHPTSVAPLVLCICYLM/P MLPWAWSYWRGARRPSRHPG AFPCSAHQCPAARSPTLRQE DPEKGSQASSFPTGSPQSMVD RCLKGPQLDVSRLQLSLPQTGL RPVLVNQLSKKPTGYPQTQIQW VLMRDTGKDTDTTEEKEGHAK MEAEIGVMYPQEHLEPPESGRA KGEIPL
24147	54515	A	24285	90	354	QSPGVHQLSRFVS*YSERP*SL LVSTRYHTRALH**HYADSIQ* ARSSKHTGLIGCTVP*RGFPRTH SFYSRKREPRRQTSSFRGIL
24148	54516	A	24286	236	520	TACFLTHVAIKWVMHSSIPSSN GGGIYMIGLKAQVSYMRKWLK SPWSPLLLSPSLHRWPHGKFPM IS*QRKRRLGPGSQMVLHDMQ APPKSGQL

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24149	54517	A	24287	16	278	FAQAMKPHLVQQQLQLESPLG* AYDNPLSFSKIHLSDLHKPVL*L GDSNDVLGTLESMSAQSQCPV VPEMSDHLPPMHSSYPGKRPEV
24150	54518	A	24288	74	168	LGKCLFLHSCP*APPEAICLQLP LLSSPNGP
24151	54519	C	24289	92	564	
24152	54520	A	24290	1	876	
24153	54521	A	24291	71	282	PLVTQVVFRLFPTNSSLDLLQ/S PSP/GSGPHSNWQPFGLDKWA GVKHPNEECAASKIQTGPCCVV PLPWL
24154	54522	A	24292	81	1054	PRLFSDCFPPTAAWTCCRAFSC SGPHSNWQPFGLDKWAGVKH PNEECAASKIQTGPCCVVPLPW L*EEPNAAIYPSVSPVCFLLA HWIQA*CHQCNGPVWYLVEV KSNQVLSK*HYDTKPES*YTPY GQEWKRGHLPSQWPHTRYQE MY*FAQAMKPHLV*QLQLQSP LG*AYNNPLSFSKIHLPSPHGS SEPCL*GPTRTLV*L*L*KQTGM LAVAPEENQHLYAWQLPQGRP SLLPQAVQGLSPQTKVERLMA ASVGEGLPILGMEKLF/PSGK KD*SGFTSSVSPASSGSHTSPF QVAGSHSFPINAFTLTVDTW
24155	54523	A	24293	5	88	
24156	54524	A	24294	779	1041	PPLSSPSGP/DEQSD/LWWQQSIP LHQETVKVLH*MGVPVPCATQL DKIHQQGFSDPYRGAVLLASG WCPKRPEIPEEGATTHLCCFPAS
24157	54525	A	24295	248	3714	
24158	54526	A	24296	4177	7804	TFQESRFEQGFQKAIFILELVDA EDPPDEEEEEASSIFSSSFHFLFP SSSSCFSSSSSSLLLRSPGDKD MPTAGMPSSLQSSSESQSYPE GEDSQSPLQIPQSSPESDDTLYP LQSPQSRSEGEDSSDPLQRPPEG KDSQSPLQIPQSSPEGDDTQSPL QNSQSSPEGKDSLSPLEISQPPE GEDVQSPLQNPASSFFSALLSI FQSSPESIQSPFEGFPQSVLQIPV SAASSSTLVSIQSSPESTQSP
24159	54527	A	24297	145	219	

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24160	54528	A	24298	191	1075	QPKVSRHCQTSPGSYLYSLQSG RWTTGKPLQQTksVYLRsfHH HHFQNRHRYLHHHHLYHHHH YHPHPSHHHLHCY\SQHHHHH HHHHHHHEHHLCRHQKSTQVE YSVFAERENDLGLNGTGDEAL HDNGTTERVSGPPAGYLYRAD YAIGLQPFMPRLGRRTPGAGGP HSRAPELAYLQKLITSPATLPFV YLETGGWSPRDAHRVDNFDM GPRENMGSVWEKSFLFTRNPSK SSYIADKNLIYLYASECIGRQSQ KARASKSGVQAEHPYITGAIKD DTRAIVKTRDLANRLK
24161	54529	A	24299	155	381	LICTSFKILSRFLCPSSL*SSSSQG ACISKLLSVLTYAHLYFALEKE VLTFLSRAIVSSSTLLTHGVAHS LTLFH
24162	54530	A	24300	1052	1338	TGWDGPPANCSSPMEGDSNVH CSCVCCCSCFGLLL/CAIHCCCA PPGCSACGAATLLYSAPLGSSA YGIALLSPFHHVRMMLSTKQEV GLHQTLNLP
24163	54531	A	24301	1	723	MLNVQALVVMVMCFMWASL WAPGGHPSAGNISSWVSGLVSF PEWSSWELVVSVVGWAGKLW LHESLLTLNLSCGLLVVLVALV FDEWHPWSGHVAEACSTGYWS TGGIWFHEIAAP*DCSSSPAME QSWMEND\DELIEVGFRRLVIT NFSELKEDVRTHLKEAKNLEKR LDEWLTRINSIEKTLNDLMELK TMARELRDACTSFSSQFDQVEE RVSVIDQMNMKREEKFREK RVKRNEQSLQEI
24164	54532	C	24302	295	430	

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24165	54533	A	24303	811	1947	QTERNSININRNGHQHQNPICRS PSSKTKGSIKPQRSGRNQSRKA ENSKNQSTSSPPKDCSSSLAMK QSWMENDFDELGTAGFRRLVI TDFSELKEDVQTHHKEAKNLE KKIRQMVTRINSVEKSLKDLM ELKTMARELCDACTSFSSRFDQ VEERVSVIDQMNEMKRKEKF REKRVKRNEQSLQVIWDYVVR PNLRLIGIPESDEENGTKLENTL QDIIQENFPNIARQANVQIQEIQ RTPQRYSSRRATPRHIVRFTKV EMKEKMLRAARQKGRVTHKG KPIRLTADLSAETVQARREWGP IFNILKGKNFQPRISYPAKLSFIS EGEIKYFTDKQMLKDFVTRPA LQELLKEALNMERNNWWYQPLQ
24166	54534	A	24304	1	2394	
24167	54535	A	24305	1902	2413	
24168	54536	A	24306	2	610	WAPPAIHIRCMPEAYNFPRKPL SLIPSAIQSNELIIMNGNRALNIQ LLKRYQCTLDIRYKQTSMLNC YEGTVITPSHIQYPCLSDSYGLY DIGIRNTDFLKGELSMNIRPLHD RVIVKRKEVETKSAGGIVLTGS AAAKSTRGEVLAVGNRILEN GEVKPLDVKVGDIVFNDGYG VKSEKIDYEEVLIMSESDILAIV
24169	54537	A	24307	1	801	
24170	54538	A	24308	1268	1579	TAIWSPSKSALYAAQTSGCSWI ALPSISTGSNAWIPRRRCRVGARF SSTGCSRITSSRISQTTASSRSTIF FAALMVVARPRSSSLP*MNGLN SSSAIFFGRPH
24171	54539	A	24309	583	796	IHICDIRFSATPAGGEFWQYIAS RQSIFHAIVETGHALIQSSVPG LTPAMKAVATTSH*TVESCFRS ASR
24172	54540	A	24310	1	313	MPNVDVVGEMVNTMSASRSY QANVEVLNTEKAMSIAVTTTDP TNTGVSTTSSSLTGISNAADLQ SSFLTLLVAQLKNQDPTNPMEN NELTSQLAQISTTLRAY
24173	54541	A	24311	54	323	SASAQVSALSIIHSAAFQNEYLSP CPN*RLV\SAFTNSSRQSG*PEK SVSQTPVITASAFYADIAASV RNKILRPGTNVFGDTIGFRVQ
24174	54542	A	24312	816	866	
24175	54543	B	24313	1	985	
24176	54544	A	24314	1828	2505	
24177	54545	A	24315	1	1938	

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24178	54546	A	24316	4201	4668	
24179	54547	A	24317	269	503	
24180	54548	B	24318	1	1702	
24181	54549	A	24319	829	1584	
24182	54550	A	24320	1238	1926	IQAAYNRIAPSSSPKFPRACGKP CLGERGRIRGPGPSFGLINRPST PDPTITGVSTT/SSSSLTGSNAAD VQS/SFLTLLVAQLKNQDPTNP/ MENNELTSQLAQISTVS/GIEKL NTTLGSGSQI/DNSQSLQASNLI GHGVM/IPGTTVLAGTGSEEGA V/TTTTPFVGVEWDGTL/TDGST APNGSYNVAIS/ASNGGTQLVA QPLQFALAAERFCALSPGAPYR YDTWVRQWVASP
24183	54551	A	24321	487	1509	FYLQGLRQQPQVRQPLNIGVTA QGVNAAACHPHIAEQQLDHRH RTNVLRTNGVLRPAEGIQERGS FIVSTGFCDVFADFQERVFWRT TDVFNHIWRVAGNVLFQQVPH AARMLQRGIAFGAEVVFQFISP GGFIVLAFFRVVAGEQAIFKAVI LTHDQAGGGIGFGVFAVEFFIV QQVQQYA*QESNVSTGTNRGIV VSYRRRTRKARIDHNQLRAVV NFGFHRPAEPDRVSAHHHDEV GVLDVDPVVGHRKTFDDIWH DQFIDQVRVRFSGDNRRLLQDRE QVGLQSANNPIDKSLFRGINQF QLYAAFTAQDVNIDIFKTRQQF FAVIGQTTGVQYQYK
24184	54552	A	24322	377	749	
24185	54553	A	24323	140	298	
24186	54554	A	24324	342	1094	MGAPWLHRPRRALQRWRLGS GFSCGSLGLQENNGRPVMV LALSTLPRRPTRCGCEFYCLIKP GFRLGMKSVKMEIRGLWAGGE DKIAVPAEPRSAGPERTLSDLH NESIF/ITGGGSLGLALVERF/IE EGAQVATLELSAAKV/ASLR/Q RFGEHILAVEGN/VTCYADYQR AVDQILT/RSKG/LVNTPAETLE TGFHELFNVNVLGYLLGAKAC APALIASEGSMIFTLSNAAWYP GGGGPLYTASKHAATGR
24187	54555	A	24325	1	1785	
24188	54556	A	24326	2	1760	
24189	54557	A	24327	2437	2679	TFQYIGQPHGDEFPHVAPVKHG DKLGEGKNHHDKSRHLFHRFN H*MR*IRLTSNCAGSDAISQRD NKEKKNDQWHDTFNKG

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24190	54558	A	24328	3	415	
24191	54559	A	24329	1	1932	
24192	54560	A	24330	1932	2117	RAISLGRTAAGYLNSDVAQRA ASGADPAGDFVFWH**IRKNLS GGARYAIPHL YQHLAWHP
24193	54561	A	24331	1	1017	MRYREPPARGVEPNELHACRSE DKLSEDAFDDQCTGANPRYPLI SELKQILLDTYYGRDYVEDRLS FLLAVATLNGERLDGEMSEK LVMPFRHVSDAFEQTRETIGVR GNNAINDMVRQRLNRFRTSEQ AEGNAIYRLTPLGIGITDYIRQ REFSTLRLSMQLSIVAGELKRA ADAAEEGGDEFHWHRNVYAPL KYSVAEIFDSIDL TQRLMDEQQ QQVKDDIAQLLNKDWRAAISS CELLLSETSGTLRELQDTLEAA GDKLQANLLRIQDATMTHDDL HFVDRLVFDLQSKLDRIISWGQ QSIDLWIGYDRHVHKFIRTGID MDKKPRPSRRCL
24194	54562	A	24332	5	220	GLSWLNYC*ASTLTISLRCTR AVPLTRIRCRPLLPSRRERTAL PCIYVKIAVTLTATCASCVR WIPA
24195	54563	A	24333	3	180	
24196	54564	A	24334	229	564	PGFKPRHSSWQRLPSLGHLPY GSSVFTLLNLATAHSSGPCLLQ LELSFHSPSTTAVCRRHRPTADF HPSESGRVSHVLLIQ/QRCPLL WIRLKACHCSCTAKCPGSSQLS
24197	54565	A	24335	148	404	
24198	54566	A	24336	213	1306	SCEHSVAHGRGIMDLSLLKALS EADAIASSEQEVQRILALEADR LQKEVRVDGLGSVLIRLNESTG PKVMICAHMDEVGFMVRSISRE GAIDVLPVGNVRMAARQLQPV RITTREECKIPGLLDGDRQND VSAMRVDIGARSYDEV MQAGI RPGDRVTFDTTFQVLPQRVM GKAFDDRLGCYLLVTQLRELH DAELPAEVWL VASSEEVGLR GGQTS\TRAVSPDVAIVLDTAC WAKNFDYGAANHRQIGNGPM LVLSDKSLIAPPKLTAWVETVA AEIGVPLQADMFSNGGTDGGA VHLTGTGVPTVVMGPATRHGH CAASIADCRDILHMQQLLSAFI HKSNELGGVLRRLRIQICRDGNE
24199	54567	B	24337	1	1075	

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24200	54568	A	24338	438	1462	QIVQCLDVPSYTFIWFVAVLDPIY GDSVSTGLVVAIHSIIVNAITPIG LYLLNPSSGADGKKNSNLSALI SAAKEPVVWAPVLATILVLVG VKIPAAWDPTFNLIKANSOVA VFAAGLTLAAHKFEFSAEIAYN TFLKLILMPLALLLVGMACHLN SEHLQMI/TLASALPPAFSLKLIY CAA/ARLMCYTRTGTTSIAITLT ETVTQKL TGSRPRISSYGRNLM WPLAWYKDNGKPHLCSQLETT RIHSTAAQGRSSGSLRRGLGAS PFYRQHDQARSEQIPITRIPMG LAQRAPKGRAQPRGLTAPFTN GALGQPQGRGTSKQASQTRPR ASAWPHTPT
24201	54569	A	24339	30	177	GSGYQRCHNNAASDRLRSYRK QPAER/WLAPPIDSITSPPASRRALILLY
24202	54570	A	24340	3350	3430	
24203	54571	A	24341	425	824	SISGSENA CFNATNHSGRYSQY GACLTSSSCRKGQLARRGLSYQ SPHAPADPAFPAARRSPVFCLS DDGGHKSPRDMSPDKPSRHPD QVALTRRIPSPAVALPSVVKR TVHEGQGDDDESNPSPSPDVH
24204	54572	B	24342	1	2118	
24205	54573	A	24343	1	888	
24206	54574	A	24344	730	1101	
24207	54575	B	24345	1	1992	
24208	54576	A	24346	880	1103	TMMRRLISRQPVLP LQKCFSVLI SNPWRVFGGTGGGNQER/CRY AEEVAETRLCP*CRLYAEYDP GSGCAGLSL
24209	54577	A	24347	1	952	MITLRKLPLAVAVAAGVMSAQ AMAVDFHGYARSGIGWTGSGG EQQCFQTTGAQSKYRLGNECE TYAELKLGQEVWKEGDKSFYF DTNVAYSVAQQNDWEATDPAF REANVQGNLIEWLP GSTIWA GKRFYQRHDMIDFYWDIS GPGAGLENIDVGFGKLSLAATR SSEAGSSSFASNHIYDYS/NEN AND/VFDVRLARWDSPPGGLTG FPPSALACTSGVSGQKGVPGPP EAQVT FATPKKPGKEACSSIQV LNRGYRPPTFSYNTGVRRSARD YYPRRQRSISTNSPSRRWKGL NSRRCSTGNRPLVGAVS

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24210	54578	A	24348	805	1274	ASFATTRPVTKLAMRVAIFDSV VGQRYWGSAA SPEHSRFAVLW ILASIFR/DRIASLRVQATVKS*K MS*A WYWQGC FRNWKSSPA*Y QFFSPARSASSHFAGEPVSLHSP IALGYRSESSSSCHTSTASLSVH RDY AHLHGLRFDHSSSRRLCY C
24211	54579	A	24349	275	490	
24212	54580	A	24350	1	696	
24213	54581	A	24351	1	735	MFTPDYRSVSRVLGSGPGYASR MNQPDVMPDIPGKRFYQRHVD HMIDFY YWDISGP GAGLENIDV GFGKLSLAATRSEAGSSSFA SNNIYDYTN ETANDVFDVRLA QMEINPGGTLELGVDYGRANL RDNYRLGKGLSQGSGVAFDNE KFAYNINNNGHMLRILDHGAIS MGDNWDMMYVGM YQDIHWD NDHG\TK\WWTAGIRP\MFKWT PIMNTGMKF/GYE/NVESQGP QNIRTIYLAKP*QPDVMPDIPGK RFYQRHVDVHMIDFY YWDISGP GAGLENIDVGFGKLSLAATRSS EAGSSSFA SNNIYDYTN ETAN DVF DVRLAQMEINPGGTLELG VDYGRANLRDNYRLGKGLSQG SGVAFDNEKFAYNINNNGHML RILDHGAISMGDNWDMMYVG MYQDIHWDNDHGHQVGGPAG IRPDVQVDAHHEHRDEIRYEKL NPRARDKTFVQFTSQNPDR
24214	54582	A	24352	1	3414	MIVQPLAIIGSHFDSIAAGNLAR PIAVYGRNEITAIFASLKTMQQ ALRGTVSDVRKGSQEMHIGIAE IVAGNNDLSSRTEQQAASLAQT AASMEQLTATVGQNADNARQ ASELAKNAATTAQAGGVQVST MHTM QEIATSSQKIGDIISVID GIAFQTNILALNAAVEAARAGE QGRGFAVVAGEVRNLASRSAQ AAKEIKGLIEESVNRVQQGSKL VNNAATMIDIVSSVTRVNDIM GEIASASEEQRGIE
24215	54583	A	24353	1	2493	

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24216	54584	A	24354	1	1201	MQPALLIVLNKVRQEARRRAR ACRIRRASGIVQFGKVRRQLAA VELRQRQTPERFVLLRGTRQQA TGQRIVKTEQRVIIITQRSFRRPG EGRRINDHFRFPAHLPSIRPIGK HQTFFGISGHHFNFFTVAIGDDI AQLDRIGANQSVLKGFNFV QYATDSMTSQGKLSQSGSVA FDNEKFAYNI/SFNGHMLRILDH GINWDNDNGTKWWTVGIRPM YK\WTPIMSTVMEIGYDNVESQ RTGDKNNQYKITLAQQWQAG DSIWSRPAIRVFATYAKWDEK WRYDYTGADNNANFGKAVP ADFNNGSGF\RGDSDEWTFGAQ MEIWGLSRASGTLVTRAWRYK TTPTRHCLLMNHYAGEAAMR WKNYLKSTQKVQLQNFANWP KYSLSLTFHFPSKSC
24217	54585	A	24355	188	406	FIRSFDPSPVPSVLDRFFVLSTVF HSSSIFLVVIDRPSVGEPSLF*V GGSCPTNSLYRCSGLAWYLMR SMD
24218	54586	A	24356	1	1798	
24219	54587	B	24357	1465	7841	
24220	54588	A	24358	174	3762	TLNDAMRREKCLARINRTAKS GVVMPKLVWMMNQVRGELT KLANGAHTFKYAPEWLASRYA RPLSLSLPLQQRGNITSDAVNFF DNLLPDRTIVRDRIVKRYHAKS RQPFDLLSEIGRDSVGAVTLIPE DETQHHYESLTITDEGEFVVVF GPSGCGKSTLLRMIAGLETITTG DLFIGEKRMNDTPPAERGVM VFQSYALYPHLSVAENMSFGH ATGLAQHKEVAEVLPSRRICWI ANRKRSPVVSVS VWRL
24221	54589	A	24359	364	845	RPLLDHGSSPRLNFLRFWYVVH AHTLMRMTEGWAGFDILRPYR WRRVIAFVVAFYFRHLIALLV QMHFQLVKGNVDVVFTAQLID STVQLIDSTTTVTQFTHIQTQLM IQRAGTKCRKEDFRHWFVHHP WVL/MSPPSVTLYALFPDRSHR PRRDGSPDA
24222	54590	A	24360	781	1275	

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24223	54591	A	24361	1	1185	MDKFDANRRKLLALGGVALG AAILPTPAFATLSTPRPRILTLNN LHTGESIKAFFDGRGYIQEELA KLNHFFRDYRANKIKSIDPGLF DQLYRLQGLLGTKRKPSCGYVT TAPAARSYRLTSKFIAVGQKAL SSLNIIHIAAPHLEALIIGESDTK NFASHDHAILIYKLEPTTGMLR TRAYIGQHMPLYCSAMGKIYM AFGHPDYVKSYWESHQHEIQPL TRNTITELPAMFDELAHIRESGR TMDREENELGVSCIAVPVFDIH GRVPYAVSISLSTSRLKQ/PRQH RFRLRERQPAGGTPPAGTNSVT GGASLHHARCQRRK*KPYRPER A/ESFLPARGKICWP*AGTLTVC IMASASRLISGCTPDSTCWSTA HAPICRRRGRRAINRCHCSS
24224	54592	A	24362	1	801	
24225	54593	A	24363	1523	1950	LLPA/AQKRRVDFLRATDFNAL MPGVVEIDGKNIYTQIIDLTRE AVVNRPEVHRRYIDIQFLAWGE EKIGIAIDTGNNKVSESLLEQRN IIFYHDSEHESFIEMIPGSYAIFFP QDVHRPGCIMQTASEIRKIVVK VALTALN
24226	54594	A	24364	281	997	LTFA RLKGITRKIGRLQSRRRKR CKAMGVDVNRVYSLDELVRG NDILFSATGVTGGELVNGIQQT ANGVRTQTLLIGGADQTPMAT LTEDDVLEQLDAQDNLF\FSMK TAHTILLQGIRQFLPSLFVDNDE EIVEYAVKPLLAQSGQIDDIDV ALRLIYALGKMDKWLYADITH FSQFWHYLNEQDETPGFADDM TWDFISNVNSITRNAMLYDALK AMKFADFSVWSEARFSGMVKT

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24227	54595	A	24365	263	1410	AMISRRRFLQATAATIATSSGFG YMHY/CLNSDAIALGIEQRPDLI LLGGDYVLFDMSLNSSAYS DV LSPLAECAPTFACFGNHDRPVG TEKNHLIGETLKSAVITGMLNQ ATVIA YANRPFELVGTGDLWS GQCKSASASETNLSRLVLAHNS CSKEVMRDEPCDMLGSHTHR WQLSVP MAGEPFCHVADERYV LGLNAFCERHIYTIPRGGKRIPQ TFAADLPGKGITVNPVQSTITEE TFQTLLVSRALEKLGYTVNKPS EVDYNVGYTSLASGDATFTAV NWTPLHDNMYEAAGGDKKFY REGV FVNGAAQGYLIDKKTAD QYKITNIRQLEDPEIAKLVD TNG DGKADLTGCNPGLGFEGAINH QLGAYELTNTVT HN
24228	54596	B	24366	1	2872	
24229	54597	B	24367	1	1704	
24230	54598	B	24368	1	1470	
24231	54599	B	24369	1	2301	
24232	54600	B	24370	1	900	
24233	54601	B	24371	26	856	
24234	54602	B	24372	1	1743	
24235	54603	B	24373	1	1410	
24236	54604	B	24374	1	957	
24237	54605	B	24375	1	2742	
24238	54606	B	24376	755	1816	
24239	54607	B	24377	1	1968	
24240	54608	B	24378	926	6441	

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24241	54609	A	24379	1	1739	MTWTHEAVNRREPLRGCEPNW DVDVKPAGCMISRRNELPYTLG LRIDMLVDLGTASLMGQSSVY NTTDRHSTHRMDGLEQLMQQA DFAADIAVVAPWDNWSPTAGR FGLIRLLDEQTAPYAWYTSPMH LMDEKCSCHRQRPVIGLNQPQ YQSGTIEVDNVSFAYRDDYLV KNINLSVPSRNFVALVGHTGSG KSTLASLLMGYYPLTEGEIRLD GRPLESSLSHSALRQGVAMVQQ DPVVLADTFLANVTLGRDISEE RVWQALETVQLAELARMSDGL IYTPLGEQGNLSVGQKQLLAL ARVLVETPQILILDEATASIDSG TEQAIQHALRRDCSPLIDHCDA DTILVLHRGQAVEQGTHQQLL AAQGRYWQMYQLQLAGEELA ASVQPLPNSDRRGSMKLVTVII KPFKLEDVREALSSIGIQGLTVT EVKGFGRQKGHAELYRGAEYS VNFLPKAAYTGKIGDG/KIFVAE LQRVIRIRTGEADEAALYLWHT ATERDGPFRNFTAGAFRASLPH PARHGRRPILAAPFMPVNPRLP PRRRHLASGRSLRFNCCTAGDE TCSARSGERRSLVF
24242	54610	A	24380	547	684	

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24243	54611	A	24381	1	2208	MLLVASVNMASISQAGKEY TNIGVGFGTETTGLALSGNWITH NDDDDGDVAGVGLGLNLPLGPL MATVGGKGVYTNPNYGDEGY AAAVGGGLQWKIGNSFRLFGE YYYYSPDSLSSGIQSYEEANAGA RYTICVQVFVVVMLIRNQLFTP VNTAIDGFATNYAIMPAYAVG EGVATHGLQFELMRTTGGNTQ HVFHHPLPLFAMWRYAAEMFP YQQMCQFVRYHFFNKSFYVQ QQNGIEANFIAFQPRSGGGSA LGRNVFGFRYQPQCQDKQYV QSRIHPEGVGTQRVEHGQERC ANDHVQSSGTELMQEGVMSAS LKNQQGFSLPEVMLAMVLMV MIVTALSGFQRTLMNSLASRNQ YQQLWRHGWQQTQLRAISPPA NWQSGAAMLRVYHSNRLDVL EALMEFIVERERLDDPFEPEMIL VQSTGMAQWLQMTLSQKFGIA ANIDFPLPASFIWDMFVRVLPEI PKESAFNKQSMSWKLMTLLPQ LLEREDFTLLRHYLTDDSDKRK LFQLSSKAADLFDQYLVRPD WLAQWETGHLVEGLGEAQAW QAPLWKALVEYTHQLGQPRW HRANLYQRFIETLESATTCPPG YLRASLYAAIQHALASVREHTT LVVIAHRLSTIVDADTILVLHRG QAVEQGTHQQLLAAQGRYWQ MYQLQLAGEELAASKGHAELY
24244	54612	A	24382	2	729	DCSPIDHCDADTILVLHRGQA VEQGTHQQLLAAQGRYWQMY QLQLAGEELAASVQPLPNSDRR GSMKLVTVIIKPFKLEDVREAL SSIGIQGLTVTEVKGFGRQKGH AELYRGAEYSVNFLPKAAYTG KIGDG/KIFVAELQVRIRRTGEA DEAALYLWHTATERDGPFRNF TAGAFRASLPHPARHGRRPILA APFMPVNPSRLPPRRRHLASGR SLRFNCCTAGDETCARSGERR
24245	54613	A	24383	683	1161	RTGHCH/SAFSFSTVLTSCSLSRF SFLAHLQYLLRVAEPLPNSDR RGSMKLVTVIIKPFKLEDVREA LSSIGIQGLTVTEVKGFGRQKG HAELYRGAEYSVNFLPKVKIDV AIADDQLDEVIDIVSKAAYTGKI GDGKIFVAELQVRIRRTGEADE

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24246	54614	A	24384	631	1149	FFGIKEQVITANNANSNRNKTD RCCRNWLEDHADNHCHKHSEV MPCLRRHTVGD RDKKH DTHH HQQGQ*FPYIIFWLVSPLAISRS KVSTHGLRQRDFILLREASQSF RFVLRVYDVADHIAGKFTVHD LQFIGYHGGQAQLVAQVFSKES KAAGGNRHFPARQRFQLEHQLR
24247	54615	A	24385	833	1264	
24248	54616	A	24386	1	1632	
24249	54617	A	24387	2078	2371	
24250	54618	A	24388	1	159	
24251	54619	A	24389	530	811	RPGTGTAAQVLNRRIKISRST*L TVVMGYWSIIPSVSLKWD RR KSPKCSSLRVNISNTLLSTARR RKRYLIVIPALLVVRRCRPRGPS ACG
24252	54620	A	24390	1806	2115	AAFQEIELAFQDPQCVGLLTAP MLMPLFLDQLILQCFFW/W/TN LERA*TSFSALFIDLQPPGYRTT TSKHKVSSSLIKGHVLLDHSFH DLNTQLWISTNAFRGN
24253	54621	A	24391	1476	1751	ALLVVSFASQRFISA/TVGNQNA GVDLLNLTLVGGIFVLNNAGN FAVFTGDT SITGR I IQFH RQQT N ATLRF SITQTLECFDRDQRHVA VEH
24254	54622	A	24392	606	4519	EEVVRAISAKRNEPEWMLEFRL NAYRAWLEMEEPHWLKAHYD KLNYQDYSYYSAPSCGN CDDT CASEPGAVQQTGANAFLSKEV EAAFEQLGVPVREGKEVAVD AI FDSVSVATTYREKLAEQGIIFCS FGEAIHDHPELVRKYLGT VVPG NDNFFAALNAAVASDGTFIYVP KGVRCPELSTYFRJNAEKTGQ FERTILVADEDSYAAKRLTDYP HQLSGGERQRM IAMALLTRP ELLIAD EPTTALDVS VQ
24255	54623	A	24393	129	256	

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24256	54624	A	24394	1	1082	MAMSKVKISITRESWILSTFPEW GSQLNEEIEQEQVAPGTFAMW WLGCTGIWLKSEGGTNVCVDF WCGTGKQSHGNPLMKQGHQM QRMAGVKKLQPNLRTTPFVLD PFAIRQIDAVLATHDNDHIDV NVAAA VMQNCADDVPFIGPKT CVDSWIGWGVPKERCIVVKPG DVVQVTALEIHAPDAFDR TAPI TWLADQKRRRTVKGR TTRPCN RSVTVRPRRRDAVIGRFYRHQS ITQKGLLLMVMPGCAFLWIDS ELNLT FIDALFEGVSGITTTGAT VIDDVSSLPRAYLYYRSQNLFIG GLGVIVLAVAVLPLLIGIGGAKL YQSEMP/AAI*G*QTHSPPGRYV TDTV DNLFFIRCRT
24257	54625	A	24395	49	281	ASDHRYLCSQSVP LRGIPACYL LQAPLTRWR/RIPPSRRICAAIDS AISRSQQRWLTA VCCGTVNFTN TCLLPDGVCA
24258	54626	A	24396	737	1419	CIWRMYSHRLVAVRRCVKRR/ RYLTRFAKTRGVAIVMVGHVT KDGLAGPKVLEHCIDCSVLLD GDADSRFRTL RSHKNRFGAVN ELGVFAMTEQGLREVSNPRGR GKRKFISPKKTPALAKFRRNLL PPKVPNGTSVRFRHSRICWMN PLPGAAWNCILTLKKPISPGVQ VPESFTPARLEAFAGRSQACL VPAQNILHQKSQAWLDFDPEQE KELRELSA WMAGA
24259	54627	A	24397	526	1693	STTGIRSIAMSNPILSWRRVRA/ LCVKETRQIVRDPSSWLI AVVIP LLLLFIFGYGINLDSSKLRVGIFL EQRSEAALDFTHMTGSPYIDA TISDNRQELIAKMQAGKIRGLV VIPVDFAEQMERANATAPIQVI TDGSEPNTANFVQGYVEGIWQI WQMQR AEDNGQTFEPLIDVQT RYWFNPAAISQHFIPGAVTIIM TVIGAILTSLVVAREWERTME ALLSTEITRT ELLCKLIPYYF LGMLAMLLCMLVSVFILGVP YRGSVLILFFISSLFLSTLGMG LLISTITRNQFNAAQVALNAAF LPSIMLSGFIFQIDSMPA VIRAVT YIIPARYFVSTLQSLFLAGNIPV VLVVNVLF LIASAVMFI GLTWL KTKRRLD

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24260	54628	A	24398	655	915	IAVNVTLAFNGGKQLR*STSL CCQEGLAFAVNLRQHFRVQTIS FFFLPVLRFWRPGIQQAKKCHP APRTAKGIPQQVIRAMRLLFK
24261	54629	A	24399	549	827	
24262	54630	A	24400	472	626	WRFFRPRKDNIRRTLFADGHQI AAQPGLNLSCTRTIF*IKRJNTP GRWRK
24263	54631	A	24401	333	617	SDQSETDYRFADGERHLENQPH AGQTGRGGAGPGCTLYQRFAQ LCEVSEVERSGCRTLSAQHVEQ NLPAICGGDDADGAVVHLWT TA*RTRIGTLRSGPKMNSAISII TATDSGWKILLHMLS
24264	54632	A	24402	74	265	
24265	54633	A	24403	1	1005	
24266	54634	A	24404	1068	1185	SVAIRQASTGNRCQCLCPACA WA*VNADV*K*SARVSRL
24267	54635	A	24405	1	2292	
24268	54636	A	24406	720	2496	RRAGYRKAADAMTTIVPEKLS REVGSHFHALDRTTAVHRQPVI SATTTVHEFLRCHQFPLVCDG GRMTPRAMFLFSSAHILMPLNY HNSHINTLFPVAGTLMVEPTES ESKVELDRFIDAMLAIRAEIDQ VKAGVWPLEDNPLVNAPHIQS ELVAEWAHPYSREVAVFPAAL VTGGSRGIGRATALLAQEGYT VAVNYQQNLHAAQEVMLITQ AGGKAFVLQADISDENQVVAM FTAIDQHDEPLAALVNNAGILF TQCTVENLTAERJNRVLSTNVT GYFLCCREAVKRMALKNGGSG GAIVNVSSVASRLGSPGEYVDY AASKGAIDTLTTGLSLEVAAQG IRVNCVRPGFIYTEMHASGGEA GRVDRVKSNIQMQRGGQAEF AVQTFPVWRVAQHCAVRPFRQ RIGQLRDIFHLKGDQFTNPRKT GVTPQPPCSTYPDPSPPPVPAAG HIDRPALAPTFTPPIMCSKATVK PLSPSPPGTPDPASVLPFREORA AVHRLRTVVTRHLLALRRDPF ANRHRQQDQRNGGFHHRQRHL HTGKTRSLHHHQFAALRQHPK TKQRRKQSRHREEDLHIFRHAQ
24269	54637	C	24407	49	186	
24270	54638	A	24408	470	811	
24271	54639	A	24409	1	1006	
24272	54640	B	24410	1	2793	

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24273	54641	A	24411	463	1258	CCRSSWCNSDSETGLQIVASYF EDRNGDSLALRPEGTAGCVRA GIEHGLLYNQEQRLWYIGPMFR HERPQKGRYRQFHQLGCEVFG LQGPDIDAELIMLTARWWRAL GISEHVTLELNSIGSLEARANYR DALVAFLEQHKEKLDEDCKRR MYTNPLRVLD SKNPEVQALLN DAPALGDYLD EESREHFAGLC KLLESAGIAYTVNQRLNRYLS ANLIENNLSLFDGEGYRFYHPK PTKNAERENRQCRNDLFFRCGF
24274	54642	A	24412	221	832	TMAENQSTVENAKEKLDRWLK DGITTPGGKLP SERELGELLGIK RMTLRQALLNLEAESKIFRKDR KGWVFTHPRFNYSPELSASFQR AAIEQGREPFWGFTEKNRTSDI PETLAPLIAVTPSTEL YRITGWG ALEGHKV FYHETYINPEVAPGF IEQLENHSFS AVWEKCYQKEPV VKKLIFKPVRMPGDISKYL GGS AGMP
24275	54643	A	24413	158	481	
24276	54644	A	24414	2201	2350	
24277	54645	A	24415	621	1830	AGWKRGGAGEPDQGLQAEME VLENLQELKDLNQRQAHAESKI FRKDRKGWVFTQPRFNYSPELS ASFQRAAIEQGREPSWGFTEKN RTSDIPETLAPLIAVTPSTEL YRI TGWGALEGHKV FYHETYINPE VAPGFIEQLENHSFS AVWEKCY QKETVVKKLIFKPVRMPGDISK YL GGSAGMPAILIEKHRADQQG NIVQIDIEYWRFEAVDLINLCF MVTINNARKILQRVDTLPLYLH AYAFHLNMR LERVLPADLLDIA SENNLRGVKIHVLDGERFSLGN MDDKELSAFGDKARRNLDIHI ETSASDKASIDEAVAIALKTGA SSVRFYPRYESNLRDVL SIIAND IAYVRETYQDSRLTFNIEWGKS SCCSPYVHPWAKLAAIYYRLQP HINDAF
24278	54646	A	24416	83	502	
24279	54647	A	24417	15	95	
24280	54648	A	24418	500	786	LTQRFGTVPLLLQAYLYSAFFF TPEFLRPAPPLFSA AVLPEQRQR AQGIGGLVIRPTVELHQALQLF FGHQPKIQSLHALLRGSTGFQA SFRPL

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24281	54649	A	24419	1	2914	MYYSHASCVADQYACGMHRT PSRTGRPRIHAPRQARLKPQVK VASKKRNRARDKMQPPNEQQKT RAHACTPSSRFRAVVRTLTCPV VANVTRIFPRYFSNTRVLR KQARGTWWRRLHRLHLYVQPH KHTSYIYRLYRVTYVMSAQV VDGTGIYEFTTRKHDIGTIELPNS EIRYHGPNPAMSRPRKTPTPPNSP ASERATGPTTLLPPIRQRRYAA RHTSTIAYTNSTSDIFEAPYNKA APIMRYTSVYCSLFSP
24282	54650	A	24420	2	420	CPYPENRWRGKILARPLLFR *ASRFAGAGMPGRLIPTVRPRN SNSGRLVSASRCAKESLTVTTC TPLPGSAVREASN
24283	54651	A	24421	212	497	
24284	54652	A	24422	1	1149	
24285	54653	A	24423	535	589	
24286	54654	A	24424	1	1458	MFDPETLRTFIAVAETGSFSKA AERLCKTTATISYRIKLEENTG VALFFRTTRSVTLTAVGEHLLS QARDWLSWLESMPERAATVW MFVPTPLSVASGLQRIGRAGHQ VGGVSKGLFFPRTRDLVDSAV IVECMFAGRLNLTPPHNPLDV LAQQTVAAMDALQVDEWY SRVRAAPWKDLPRRVFDATL DMLSGRYPGDFSAFRPKLVW NRETGILTARPAFAADSDIAD GQTQRFDFSILQSMADLSQTA WR/GIQYDAEKSLWHNVE\NRQ LDAQFFHMGMGFRRRVRMFSV DPATHLAREIHFRPELFKYND GVDTKQLEGQSDLGFAFRVF KAPELARRDVVSFLGASYFRAV DDTYQYGLSARGLAIDTYTDSK EEFPDFTAFWFDTVKPGATTFT VYALLDSASITGAYKFTIHCEKS QVIMDVENHLYARKDIKQLGIA PMTSMFMPRKNASRLSKRCYDI RERDGREERK
24287	54655	A	24425	157	650	PIRSTCLFKPLITQCFRQFGSE GVNDHLLGILLIDPARAQIEYLF IINTPHRRVAAFHIIICIDFQLRF RIHFRQFAHQIVVGHLTIRFDG VLRDQVDTVKYRAAFVADDSF VQLSAVTKTFIVFQPGTGITHLV FHRHRQAQ*PFKVPFSRRLRNGI HTHC
24288	54656	A	24426	269	2024	

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24289	54657	A	24427	1	3548	MPRSNYFSERCKGEIFLK FENM QRTGSFKIRGA FNKLSSLTDAE KRKGVVAC SAGNHAQGVSLSC AMLGIDGK VVMPKGAPKSKVA ATCDYSAEVVLHGDNFNNDTIA KVSEIVEMEARIFIPPYDDPKVI AGQGTIGLEIMEDLYDVDNVIV PIGGGGLIAGIAVAIKSINPTIRVI GVQSENVHGMAASFHSGEITTH RTTGTLADGCDVSRPGNLTYEI VRELVDIVLVSEDEIRNSMIAL IQRNKVVTEGA
24290	54658	B	24428	1	2691	
24291	54659	A	24429	2174	3315	NLPKPDWARSAPHPASANYKS NTRRLPFAREQ/QDQHTLLAGT LFIKILIPMQIAQSAAYRRRC DAQLHFLPLQLAPRGHRYKRV CQVRYPPHIALIPVVFRLMNDAN GLSQPADAGLAHHEMRNFLDF ASSNVAASRRRCVAALPCATG KGRQANEQAENKCSKDPQTHR TDNKETKTPPARPTTTTQPHTK EEEPLSTPTQTKHPPTHVTGTGP HPTPASGQTEKHERKRPTQOKS NARQNSKDKRTPNKS KTTKPN RGYNQHPAGEPTMSTHEKV K HQQNRKIQAPPKRQKTDHRHT HNTHPHPPHRAASTTTQAAPP RRATRS GTSATAHNNTEPHGTR HTQPGD HKRAEHDRTADEPT PPEHTLPSHTQLGP
24292	54660	A	24430	1	2925	
24293	54661	A	24431	341	689	RPLAFRQRCTFYWR\PGSANC LV*GASGTDPRLYSPCAAAADD CGRRQNAGR RRRATSGD*SPHR RWENALLFDSRHRHCPRRAKN AGGEYRQRGIAGSDLQQRFTA AEKDHSRS

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24294	54662	A	24432	1	1931	MGTLLGTLTVLTLVAEELPAET DVAADPAASPTCTAVNQTIGRA IVAADFFIIFQLWQNTVRQLVT HFKPHGQSEMSDTPELINRARY LTYLYCRQPAKAIRELSEQELA WKKQATHEYQVLVTRCKQTL HQVEPLREIEPGRKRLVFDENL RPKQNPiHLLDTCWPLTVDEH ANRSSIGNNNISFVNVRAVVTN VLNTMRTACNSQATIQIYNADI ARDFGTRGIFSINSGESTVIRGG VVTVDLSAGAAIGDSALAFVID DGLVAVNLDTDGLRIGDGHGA LVIHRCVAVAGDINTVTAAADM DLEDPRIISARFGVPRTQVRTW VALYEKHGEKGLIPKPKGVSAD PECVLGRESCDRAAHVPYQAA AHFMLAGSGSVARWLKVYEER GEAGLRALKIGTKRNAISVDPE KAASALELSKDRRIEDLERQVR FLETRLMYLKKLKALAHPTKK AAEIPRSTFYHLKALSKPDKY ADVKKRISEIYHENRARYGYRR VTLSLHREGKQINHKAVQRLM GPSHLKQRLRSSDTALTEERDF KATRPNEKWVTDVTEFAVNGR KLYLSPVIDLFNNEVISYSLSER PVMNMRRSRPGVGIFYALTPV YLANRLQALLGVEQ/HHPDGEL FLTGYVADGGYHS
24295	54663	A	24433	3	158	
24296	54664	A	24434	1	3432	

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24297	54665	A	24435	1298	2649	TFITRPTSNGTSIFKLMNRRRLE GGNVATLR/RLTIGMIFQDHHL LMDRTVYDNVAIPLIAGASGD DIRRRVSAALDKVGLLDKAKN FPIQLSGGEQQRVGIARAVVNK PAVLLADEPTGNLDDALSEGIL RLFEEFN RVGVTVLMATHDINL ISRRSYRMLTSLDGHLHGGFGG RLDRFRKSVGGSGDGGRNAPK RAKSSPKPVNRKTNVFNEQVR YAFHGALQDLKSKPFATFLT MVIAISLTLPSCYMVYKNNVQ AATQYYPSPQITVYLQKTLDDD AAAGDPDRPSLQLRWVIPGFS IAVAIYFLNESLGRPLMITGYS ECSLLAWPVRSLRKAPMKTFP LQSLTII EAQQKFALVDSICRH FPGSEFLTGGDLGLTPATELKPR RLPSGVEQVLADAFHAQAAAL VQGAGTG AIRAGLAALLKPGQ RLLVHDAPVYPTTR
24298	54666	A	24436	546	707	
24299	54667	A	24437	428	1464	RNSRSLAEISRLRGQTRSGLPM LLNLQSMGAS/WYLSPVIDLFN NEVISYSLSERPVMNMDHLL MDRTVYDNVAIPLIAGASGDD IRRRVSAALDKVGLLDKAKNFP IQLSGACWHCRAVVNKPAVLL ADEPTGNLDDALSEGILRLFEEF NRVGVTVLMATHDINLISRRSY RMLTSLDGHLHGGFGGRLDRF RKSVGGSGDGGRNAPKRAKSS PKPVNRKTNVFNEQVR YAFHG ALQDLKSKPFATFLTMVIAISL TLPTSCYMVYNI AKSERISDIST QLNAFPGCEVA VSDAPSGQLIV VVEAEDSETLIQTIESVRNVEGV LAVSLVYHQEEQGEETP
24300	54668	A	24438	1	429	
24301	54669	A	24439	307	424	
24302	54670	A	24440	300	468	
24303	54671	A	24441	946	1558	KGCVSIPFFSFSWAVMSNLTYL QGYPEQLLSQVRTLINEQRLGD VLAKRYPGTHDYATDKALWQ YTQDLKNQFLRNAPPINKVMY DNKIHVLKNALGLHTAVSRVQ GGKLKAKVEIRVATVFRNAPE PFLRMIVVHEL AHLKEKEHNK AFYQLCCHMEPQYHQLEFDTR LCNRIRLNGHDHFRRRYALFRV NTGRTASPV IQP

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24304	54672	A	24442	1	774	
24305	54673	A	24443	1	452	MELKKLMEHISIIPDYRQAWKV EHKLSIDILLTICAVISGAEGWE DIEDFGETHPDFLKQYGDFENG IPVHDTIARVVSCICPAKFHESFI NWMLDYHSSDDKD/DHRN*W KNTPAFL*QESP*GSDSCH*CVL NNAQSGHRTDQDG*EIQ
24306	54674	A	24444	486	572	
24307	54675	A	24445	1	683	MHSLVIGQIKTDKKSNEITAPE LLNMLDIKGIKTDAMGCQKD IAEKIQKQGGAVMNLQRDDST LIRIFALHELHRLKEHGLTRGAL LDYHSRYKLVFLAHPQPESRK LGPVADIHQWQNLDDYSPQY RQRVVVLLSHPANARDHTNVL MHVQGYFRPHIDSTERQQLRAL IDSYRRGEQPLLAPLMRIKHYM ALYPDAWLSGQRYFELWPRVI NLRHSGVL
24308	54676	A	24446	896	1066	WRLSPSSR*LMPKVPRIQAYFT T*YCS*VIQRSPC*FHCYSRSIPW AWGAGKQSLT
24309	54677	A	24447	1	3660	
24310	54678	A	24448	1	1530	
24311	54679	A	24449	1	1890	
24312	54680	A	24450	746	1872	KHWRGSLISLSTPARFNGGPFW GANQGGDPKGRGGSQRALFRR KNNRGGETVSGAEDACIVNNN AAAVLLMLAATASGKEVVVSR GELVEIGGAFRIPDVMRQAGCT LHEVGTTNRTHANDYRQAVNE NTALLMKVHTSNYSIQGFTKAI DEAELVALGKELDVPVVDLG SGSLVDLSQYGLPKPMPELI AAGVSLVSFSGDKLLGGPQAGI IVGKKEMIARLQSHPLKRALRA DKMTLAALATLRLYLHPEALS EKLPTLRLLTRSAEVIQIQARL QDPLAAHYGAFAVQVMPCLS QIGSGSLPVDRLPSAALTYTPH DGRGSQLESLADRWRELPVPVI GRIYDERLWDLRCLDEQRF
24313	54681	A	24451	1358	1419	

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24314	54682	A	24452	1	1568	MKGRNIDAQEIQRKRYGMVGD VIIGVVLGLIFGLAAGEGFKGC ASLMITVAAIMVLFPRMIRLIVE GLLPISDGARKFFQKYFKGREV YIGLDTAVTLGHPTTIAVGLLI PIMLILASILPGNKVLPLADLPV APFFICMATVIHRGDLVRTLISG VIVMITVLLIATQFAPYFTEMAL KGGFSFAGESAQISALSVGNMF GWSISELSLGIIGRVVAVGIYA SVVLFLRVLMSMWLKEVIGTEK AVIAMCHLRALPGDPSFDAQLG MNWVIDKAWDDLMLQNGG VDAVMFSNEFSLPYLTKVRPET TAAMARIIGQLMSDIRIPFGVNV LWDPVASFDLAMATGAKFIREI FTGAYASDFGVWDTNVGETIR HQHRIGAGEVKTLFNIVPEAAV YLGNRDICSIAKSTVFNNHPDA LCVSGLTAGTRTDSALLKRVKE TVPDTVVLANTGVCLENVVEEQ LSIADGCVTATTFKKDGVFANF VDQARSNNPSAIPAAFVKSIDG DRYQINPNRHGVNDG
24315	54683	B	24453	1	3352	
24316	54684	B	24454	60	2284	
24317	54685	B	24455	1	2475	
24318	54686	B	24456	1	2890	
24319	54687	A	24457	1065	1139	
24320	54688	A	24458	282	615	
24321	54689	A	24459	2657	2919	
24322	54690	A	24460	1	835	
24323	54691	A	24461	167	338	
24324	54692	A	24462	834	1515	LRWCSMPCCRWSKDRAAPSPA YSRLSSHVIIAGYVGGGVARG\ HSWVFVALTLVLTAVLFSLAGL LNGVFAKTFDDISLVPTFVLTPL TYLGGVFYSLTLLPPFWQGLSH LNPIVYMISGFRYGFPWLNHNH PGVAVDINRLLLPRKQEKLGK LDKDQLIAGVQDAFADKSKLS DQEIEQTLQAFEARVKSSAQAK MEKDAADNEAKGKEYREKFR QIPSVSSCQKQ
24325	54693	A	24463	3	557	
24326	54694	A	24464	255	693	
24327	54695	A	24465	3	242	QKAPVLANQRQPRRPTGALLL /SLPLVAESSDG*EPMTNATEPH SRPLP

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24328	54696	A	24466	1	2636	MKNIIRTPETHPLTWRLRDDKQ PVWLDEYRSKNGYEGARKALT GLSPDEIVNQVKDAGLKGRGG AGFSTGRKWILMPKDESMNIRY LLCNADEMEPGTYKDRLLMEQ LPHLLVEGMLISAFALKAYRGY IFLRGEYIEAAVNLRRAIAETTE AGLLGKNIMGTGDFELFVHTG AGRYICGEETPPLLKPQTGVWQ RHSCWKLQELAMNDRDFMRY SRQILLDDIALDGGQQLLDSQV LIIGLGGLGTPAALYLA
24329	54697	A	24467	506	673	
24330	54698	C	24468	1	3411	
24331	54699	A	24469	2455	2694	
24332	54700	A	24470	1	1081	MGGLRDPWLHKLRSLWGLCR YGHKEQYDHIRIELNLAPGDTT LVPTGLAIHIADPSLAAMMLPR SGLGHKHGIVLGNLVGLIDSDY QGQLMISVWNRGQDSFTIQPGE RIAQMIFVPVVQAEFNLVEDFD ATDRGEGGFGHSGRVFCNMAE KQTAKRNRREEILQSLALMLES SDGSQRITTAKLAASVGVSEAA LYRHFPSKTRMFDSLIEFIEDSLI TRINLILKDEKDTTARLRLIVLL LLGFGERNPGLTRILTGHALMF EQDRLQGRINQLFERIEAQLRQ VLREKRMREGEGYTTDETLA SQILAFCEGMLSRFVRSEFKYRP TDDFDARWPLIAA\SCSNMTPD
24333	54701	A	24471	93	475	RCKCADAATRGRSRRDLPDVQ NSARQYG/WI/GCATHARSG*HI VEAVQSG/TPPQPLRPRGTSRKV STDYRWRAASQLPAQYQDLTSI YDVYTVPDRVAKRAFKSPDD GPVMWRMGHQPHLIPRNVLAQ
24334	54702	A	24472	254	1150	RFLTCRYGPGMAEDMQSLVGG TVTRSG*LSVVVNNNGE/LLAK ELSVQVGIRPEYLDRLHAFSG GQRORIAIARLSSQPDVIVLDE PTSALDISVQAQILNLLVTLQEN HGLTYVLISHNVSVIRHMSDRV AVMYLGQIVELGDAQQEIAQA LRRTPAPMVYIGNLGRELSLPA ANLKLESKLAIMEQYVGKKVID AVIVGPKVDVSAVKERIVIEV LEASDIPYRHDRQLLHNALEKA LQALGGLEVIQLYRRDSNLVPG QLLKTSEMCKTRLYAADSRLIA AKGSPIQPTLDSLK

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24335	54703	A	24473	1874	2927	KEDQVKGGMVCPKLLCQGTR *RGGVVGGISQASVTSVIGYSA SCQPTPAIMQLHL/ANAASRRL QPDNRPNPGWHRPPIHAFTTP GLVSVSFLGYPCSTPTCLPFSES SVGESVNLWPQSNENLRRTL GEGNLLLTFIGNGKHEIIASIFFA FSEGISAQSHWQPRYISPASVCT LVTEIDIKANKITFSIFDENAGA WLPPFCKAVVPGWVYKPNLGH EIACVDHWLMPNRLIENLCDIM LPIWVLTKFNDCCAGCVPCCVII VDDALHGAPKRMCCCITRGMR LLKLSVHAATRSTLQQASHGH CAWSAPGWLDTSGMDGDRLW WTLHEVLRDLCTSHGNIVESAR
24336	54704	B	24474	1	672	
24337	54705	B	24475	1	2496	
24338	54706	A	24476	3260	3363	RPDSGGP*RQRRYLRCADHRRR AVRNQQQLTACA
24339	54707	A	24477	112	224	
24340	54708	A	24478	1614	2326	CTYSRKCRPDKRSASGNFALSS LKSSPLTKNRRYWKVSPHLLL SKRPKISLNAYFGACSLVRPVL AAASDWTLQGAWSPTRAKALP ICESWRIPYADSLSSLAASCDV FVHSSTASHFDVVSTLLNAGVH ICVDKPLAENLRDAERLVEGM REWREERGQGVVHKPIPGWQS TLEQRGFVGCARHFIECVQNQT VPQTAGEQAVLAQRIVDKICSS FNVVRVAPLGDPIQSKPVV
24341	54709	A	24479	19	885	
24342	54710	B	24480	1	1704	
24343	54711	A	24481	974	1156	

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24344	54712	A	24482	162	1602	HRRKRARGTPKATTTTRKPARTI ETLSPLLAILAFAPKLAICTRSPL L/DDMTPFTQCTNAYSHSGIRNP TAISSAAYPRRITGY/KLGPTGE ERTVYGIYGISESNLAECEKGV KSAVALTPALQPIDGVAVSID AAVALGNTINEMDKYYTQENY KDDAFAGKGLHQTFLKNLEA FEPVAESYHAAIQEINDKRQLA ELKNIEEREGKTFHYYS LAVMI SAKQINNLSQDKFDAEAAAMKK VSELETLVAQAKEADKGGMNF SFINSAGQYQLEAKKYVRRIRD KVPYSDWDKEQLQDANSSWM VEDSFPRALREYNELMTRIGG GAGDQDMVNDFSYPQLVGRG WFNDQVATGCTRDSTFNQQQV ALSVNAYYVVNRFGKIDWKPM YAEADKLLAKPNMRFKSDKLV GDLSIGDQQMVEIAKVLSYESK VIIMDEPTDALTDTEAESLFRVI REMKSQAPRYCLYLPPHENNL
24345	54713	B	24483	1	1263	
24346	54714	B	24484	148	894	
24347	54715	B	24485	1	1071	
24348	54716	B	24486	168	1088	
24349	54717	B	24487	1	1236	
24350	54718	B	24488	1	849	
24351	54719	B	24489	1	1548	
24352	54720	B	24490	1	1372	
24353	54721	B	24491	1	2469	
24354	54722	B	24492	1	1917	
24355	54723	B	24493	1	1159	
24356	54724	B	24494	1	2294	
24357	54725	B	24495	217	2476	
24358	54726	A	24496	477	916	SLPECEDRVQYRRSLFADPSYR YGLARHGDPRRAGRLRDV*PL HE*YRHWHDQS/RLIASVLPQ VWHGACNAMTSSCIARQVS*N TALIIRMRKGDLSAVMSSQTGL INIVRRGLLLSCFRLTAMKISTV SPFRPQMPSIVRSVWC
24359	54727	A	24497	1136	1317	
24360	54728	A	24498	3	317	
24361	54729	A	24499	1	1245	

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24362	54730	A	24500	85	1293	ITVATTQHQA GLTLRRAGIRQP DMAVQRDHL PFRVAGVIRHIM LMLHSQRRTGLLITAKNRLLFF QRRSVPKFHSKLNQAYCLIAAT DCPRRLLLICRYPHHFLHQLIIL AIGIGSAVFEPHQIIGVSRCCPR HLGVERVLFLFLNDFIEQVIIRC HVVCQSAPAAANI QYAHPWF* LQFFTNHFELRLLGRFQIIGIFPV SAGILHEGIKHAAEQVITQIVML FADYPGTFFTL/RD*RDERRQY AACL*NDGGVGSRDLRVRLC* KTYPVGHIPSHYPN/CSPNPKE PSCRTRLKKSGFFTRISAGAEPL MAIPARLSNSLACGARDSAAKE VLLWFRFVLLKQTLNWTTK NVTSLWRTL GSPVG VKEVRAW TIPV/VSNRAAGSGQNPY*F*KR
24363	54731	A	24501	2794	3531	SPRDSPTFWTKGGPGGSRGKAL RLVVGTDHFQAADNIPDHMMY KSIRFNIYHHIRTVTRDINMHN APRGSGLALHRTERGEIILAQQ ALRSPMHPFSVQRFVKMGYPFT QYRRAQPMIVDDVAITASRGA KSGMKIIRYSFNPTHSDVTR*IRI YAQGPRRVFAQRGCFEMHNLP GTVYPCVSTPGAEDGDGFVRH LGERLFQLLLHTADFVLPLPAVI LTGGVLNAQRNFINRLLPYVE
24364	54732	A	24502	1	1767	
24365	54733	A	24503	1	1275	SNPTAIGGRPRRPYQAEDRSLD FVDTALNRKILKDSIFHALQTIM VGKDFLRLTQVFFDLATRIPRH LYHPVDITTHYGRFCRHRHHF QLLQLCFRFLFCLFRHLRRVDF ALQGFV FVRRV VHFTEFFLNSF HLLVQIVLT LGFLHLLFN AVAN AFLNLQQIDFRFHHCHQIFQTFV NVGHLQNRHRKIGIVIFRSDVL EHPHRNNTIKLVVQVTIILQQN GDIQAFTAFLSHLLFGRNGDA HHAYVIIRCHVVCQSAPAAANI QYAHPWF*LQFFTNHFELRLLG RFQIIGIFVSAGILHEGIKHAAE QVITQIVMLFADYPGTFFTLQIE ETSAGNTQRFEMMGELVLET RLRSPAGFTQWIPHQGCWVSL PVPRGTLALLSPWVVDGTGRR GAGGGTPQGGSSCTGAHGGGG
24366	54734	A	24504	1	2052	

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24367	54735	A	24505	1	1060	MNARQQVAALRVPGVEKATIV YRRSLQEMPAWREEYEEALHD GFRFLNNPERFDADGTLTLRVM SLGEPDEKGRRRPVETNETVTL LVDSLITAIGEQQDTEALNAMG VPLDKNGWPDVDHNGETRLTD VFMIGDVQRGPSSIVA AVGTAR RATDAILSRENIRSHQNDKYWN NVNPAEIIYQRKGDISITLVNSDD RDAFVAQEAAARCLECNYVCSK CVDVCPNRRANVSIAVPGFQNR FQTLHLEAICYNECGNCAQFCP WNGKPYKDKITVFSLAQDFDN SSNPGFLVEDCRWVPHRGLYH RLYREPTWRSEWPRRHICPEGS TFPERHCDHLSANNSRNKLLPL QKPGFIN
24368	54736	A	24506	1316	2678	
24369	54737	A	24507	2172	5242	IYFSERLPALCTPDAHYREPCQ YNCTRLDYDSALNIRELKKVAL EKGWDEYKQRWHKPAGSGSR HPVAVIGAGPAGLAAGYFLAR AGHPVTLFEREANAGGVVKNI VPQFRIPAELIQHDIDFVAAHGV KFEYGCSPDLTIEQLKNQGFHY VLIATGTDKNSGVKLAGDNQN VWKSPLFLREYNKGTALKLGK HVVVVGAGNTAMDCARAALR VPGVEKATIVYRRSLQEMPAW REEYEEALHDGVEFRFLNNPE
24370	54738	A	24508	192	484	RGLVHRGRYRWRQKWSAGSP ARHPV/SQSTTDTPATHALSTKII SPIPNAPISALARTTATRL*RSM NQPPVKRPTVIPRVKPA*ISEPE VGPIILGP
24371	54739	A	24509	1	1713	
24372	54740	A	24510	1	651	
24373	54741	A	24511	3	783	PVLSKTPLTAKAIDAAQPQDKP YKLTDSLTPGLFLLVHPNGSKY WRFYWLNKREFLQAIGVYPLI TLKEARRRATESRSLIANGINPV EQARKEKAIDALNMAAGFKKV AEDWFATR VGGWSESYAKQV RSALEKDVPVVLGKRSIVDITA RDVLALLQKKERTAPEQARNV AGASVRSSSLPLSPNWGGWLA RAAFPHHITIAARMTKHPPCW WCTILACRQASLAVRGSTHYSL ELLIRRHILSLLRSPICASPLTV

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24374	54742	A	24512	746	2387	WTALPARLKQIRSGRKLPLTVM PALRETDTFDTFMESSWYYAR YTCPQYKEGMLDSEAANYWLP VDIYIGGIEHAIMHLLYFRFFHK LMRDASMTNPSSVPRAGGPAL LFENPKGYSMPVLCNLFGTPKR VAMGMGQEDVSALREVGKLL AFLKEPEPPKGFRLDFDKLPQF KQVLNMPTKRLRGAPCQQKIV SGDDVDLNRIPIMTCWPEDAAP LITWGLTVTRGPHKERQNLGIY RQQLIGKNKLIMRWLSHRGGA LDYQEWCAAHPPERFPVSVAL GAVPATILGAVTPVPDNLSEYA FAGLLRGTKTEVVKCISNDLEV PASAEIVLEGYIEQGETAPEGPY GDHTGYNEVDSFPVFTVTHIT QREDAIYHSTYTGRPPDEPAVL GVALNEVFVPILQKQFPEIVDFY LPPEGCSYRLAVVTIKKQYAGH AKRVMMGVWSFLRQFMYTKF VIVCDDVDNARDWNDVIWAIT TRMDPARDTVLVENTPIDYLDL ASPVSGLGSKMGLDATNKWPG ETQREWGRPIKKDPDVVAHIDA
24375	54743	A	24513	576	878	NLGSVWHYFRRSPEPATHHDA ANLERSPAA*RLSGARYRILAV *ADQSQTGSGDGSDDLQTGRV GDEARHRKRGLHVPQPRSEPPV GARGFPYRFATRWR
24376	54744	A	24514	2	878	
24377	54745	A	24515	1	735	
24378	54746	A	24516	1	1992	
24379	54747	A	24517	721	1239	

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24380	54748	A	24518	1	1954	RQLNGVQLAFRESFHTVTRVTE QHAAGAVAIHQHRNQLLTGAL GIFAVAVCCCLQQRLLDILLADHL AEHVQFVIAQFVTCQQHGNGV RNRTIIFLLFNELRKIVETVRVQ QTQTGEVAFHPQLFRGRVVYG PDLNARRGNGVINCSTLEDPOF GLILFVYTIGIQVGPFFASLRV SGLRLNLFVAVLIVIGGLVTAIL HKLFDIPLPVVLGIFSGAVTNT ALGAGQQILRDLGTPMEMVDQ MGMSYAMAYPFGICGILFTMW MLRVIFRVNVETEAQQHESSRT NGGALIKTINIRVENPNLHDLAI KDVPIIINGDKIICSRLKREETLK VPSPTIILQLGDLHLDSRGSPL DTQDIDLQINSSVEKQFGDAIRT TILDVLARYNVRGVQLNVDDK GALDCILRARLEALLARASGLP MISASLQQRKTRTRRSMLFVPG ANAAMVNNSFIYPADALMFDL EDSVALREKDTARRMVYHALQ HPLYRDIETIVRVNALDSEWGV NDLEAVVRGGADVRLTKTDT AQDVLIDIEKIEILRIEKACGREP GSTGLLAAIESPLGITRAVEIAH ASERLIGIALGAEDYVRNLRT RSPEGTELLSARCPWQAARSA GIQAFDTVYSDANNEAGFL/QE
24381	54749	A	24519	5121	5492	
24382	54750	A	24520	2520	3525	
24383	54751	A	24521	1	1263	MAINSPLNIAAQPGKTRLRKSL KLWQVVMGLAYLTPMTVFD TFGIVSGISDGHVPASYLLALAG VLFTAISYGKLVRFPEAGSAY TYAQKSINPHVGMVGVWSSLL DCLLAVVIIAIIYVGFSLAGFHV YIGMLFVPGANAAMVSNFSIYP ADALMFDLEDVALREKDTAR RMVYHALQHPLYRDIETIVRVN ALDSEWGVNDLEAVVRGGAD VVRLPKTDTAQDVLIDIEKILRI EKACGREPGSTGLLAAIESPLGI TRAVEIAHASERLIGIALGAEDY VRNLRTSPEGTELLFARCSIL QAARSAGIQAFDTVYSDANNE AGFLQEAHAIKQLGFDGKSLIN PRQIDLLHNLAYPTQKEVDHAR RVVEAAEAAAREGLGVVSLN GKMVDGPVIDRARLVLSRAELS
24384	54752	B	24522	62	405	

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24385	54753	A	24523	891	3240	RYRKSPGSWR/CMSCILTSWITT MFPI*RLGQWC*NPCVTMAL/L APIDVHLMVKPVDRIVPDFAAA GASITFHPEASEHVDRTLQLIK ENGCKAGLVFNPATPLSYLDY VMDKLDVILLMSVNPFGGGQS FIPQTLDKLREVRRIIDESGFDI RLEVDGGVKVNNIGEIAAAGA DMFVAGSAIFDQPDYKKVIDE MRSELAKFEDIRGVAFDLGTL VDSAPGLAAAVDMALYALELP VAGEERVITWIGNGADVLMER ALTWARQERATQRKTMGKPPV DDDIPAEQVRILRKLFDRIY EVAEEGTFLPHVADTLGALQA KGLPLGLVTNKPTPFVAPLLEA LDIAKYFSVVIGGDDVQNKKPH PDPLLLVAERMGIAPQQMLFVG DSRNDIQAAGAAGLDAQARRK NAGYYYYLRLAKRQMRAGVA EALRDDLLAAKLNKLVNAGD YKFKQIASEKLLIVVTSTQGE PPEEAVALHKFLFSKKAPKLEN TAFVAVFSLGDSSYEFFCQSGKD FDSKLAELGGERLLDRVDADV EYQAAASEWRARVVDALKSRA PVAAPSQSVATGAVNEIHTSPY SKDAPLVAWRLPNVEGRARAG GASSFLADRVVEEGEVRFIEH NDNFRLPANPETPVIMIGPGTGI APFRAFMQQRAADEAPGKNWL FFGNPHFTEDFLYQVEWQRYV
24386	54754	A	24524	950	2124	MSLISSVIAATWLHVKSRYRLSC GFYACQSLVLVS/IFPTLSCLFA AEQLLIWSASAFITKVLVPLIM TYAARNIPQNIPEKALFGPAMM ALLAALIVLLCAFVVQPVKLP ATGLKPALAVALGHFLLGLLCI VSQRNLRQIFGYCLMENGSHL VLALLAWRAPELVEIGIATDAIF AVIVMVLLARKIWRTHGTDL TPLLFSLLCFACRKRRLSATRTV TVLHSLGITLLILALWVVQTA ADAGEIFAAGLWLHIDGLGGLF LAILGVIGFLTGIYSIGYMRHEV AHGELSPVTLCDYYGFFHFLF TMLLVVTSNNLIVMWAAIEAT TLSSAFLVGIYQQRSSLEAAWK YIICTVRVAFGLFGTVLVYANA ASVMPQAEMAIFWSE

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24387	54755	A	24525	1	757	RWRLPGVPPFNGFFSKFPLFAP GFALSVEYWILLPAMILLMIESV ASFASFIRWFGRVVPKGPSEAV ADAAPLP GSMRLVLIVLIVMSLI SSVIAATWLHVKSRYRLSCGFYA CQSLVLVSIFATLSCLFAAEQLL IWSASAFITKVLLVPLIMTYAAR NIPQNIPEKALFGPAMMALLA ALIVLLCAFVVQPVKLP MATGL KPAL/AGLATDAIFAVIVMVLL ARHIIWRTHGTL DVNNLHALK GIMSCSYSS
24388	54756	A	24526	249	3943	
24389	54757	A	24527	1	1278	
24390	54758	B	24528	48	144	
24391	54759	B	24529	27	239	
24392	54760	A	24530	1	551	
24393	54761	A	24531	3	258	MLFDEPTSALYPEMIN*VLDVM VELANEGMTMMVVTHEMGFA RKEANRVIFMDEGKIVEYSPKD AFFDDPKSDRAKDFLAKILH
24394	54762	A	24532	2	979	
24395	54763	A	24533	1	4116	
24396	54764	A	24534	1	1195	MLIAEGLMTAKNITVITNSLPA AFALSENKDITLVVCGGTVRHK TRSMHGSI AERSLQDINADLMF VGADGIDAVNGITTFNEGYSIS GAMVTAANKVIAVL DSSKFNR RGFNQVLPIEKIDIIITDDAVSEV DKLALQKTRDTSLVYVLSLADF FRTASTIGERDGTQVEMILFAGF VYLVISLSASLLVLTDCSTEVK KGEVVVVCGPSGSGKSTLIKTV NGLEPVQQGEITVDGIVVNDKK TDLAKLR SRVGMVFQHFELFPH LSIENLTLAQVKVLKRDKAPA REKALKLLER/VSGFFAHANKF PAQLSGGQQQRVAIARALCMD PIAMLFDEPTSALDPEMINEVLD VMVELANEGMTMMVVTHEM GFARKVANRKHHTTRSTIALQSL ATCT
24397	54765	A	24535	383	962	TDNDRPGLGTDMMKASAIVTN VAVVLSGRYRRERASGEWAAL SFLRPHTLTVFVIPHQWDDPQ MSRPSGRHLFR CRTVQRKHAL QVVEKFRPFPSDRYRYGAPGD YAQSFGGQIDDVVKAIQTPSKF RRFLRV SFD*IRLPILHSGKSPLR RMPNLMRRHSHTARHYPALGT RGPQPTDRQERPAVASGQ

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24398	54766	A	24536	1477	2387	
24399	54767	A	24537	1	1560	
24400	54768	A	24538	305	718	
24401	54769	A	24539	1	2161	MNDVDRVGGKNASLGEMITNL SGMGVSVPNGFATTADAFNQF LDQSGVNQRIYELLDKTDIDDV TQLAKAGAQIRQWIIDTPFQPEL ENAIREAYAQLSADDENASFAV RSSATAEDMPDASFAACTLVPG QNLSTSNKDVIELPDNQYDLDK MVNIYPVTPGLIDQLRAKPIMS QANPELEQQIANEYRIGIGDV LMVTVWDHPELTTPAGQYRSA SDTGNWVNADGAIFYPYIGRLK VAGKTLTQVRNEITARLDSVIE SPQVDVSVAAFRISQKAYVITA EVSKSGQQPITNIPLTIMDAINA AGGLTADADWRNVVLTONGV KTKVNLYALMQRGDLRQNKLL HPGDILFIPRNDLKV FVMGEV GKQSTLKMDRSGMTLAEALGN AEGMNQDVADATGIFVIRATQ NKQNGKIANIYQLNAKDASAM ILGTEFQLEPYDIVYVTTAPLAR WNRVISLLKKLERLTSIAITLPGI IDTENGIVHRMPFYEDVKEMPL GEALEQHTGVPGEAKGLVGAP PGARDVIQVVSIPNVGRAVIPN GHLLPQGSSSLVEIAHTQGGPL MGKRCYCGNHGCLETIASVDSI LELAQLRLNQSMSSMLHGQPL TVDSLCAALRGDLLAKDIITG VGAHVGRILAIMVNLFNPQKILI GSPLSKAADILFPVISDSIRQQA LPAYSQHISVESTQFSNQGTMA
24402	54770	C	24540	1	1389	
24403	54771	A	24541	405	576	CEMGAPPWPGCWLSLFDVDG RFVLAWMLFQGSYLAGALGDQ PVVHILGQLLALWRPL

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24404	54772	A	24542	1	1127	MARTLAHELIDFGEIKRGLLGIK GTEMSADIAKAFNLDVQRGAF VSEVLPGSGSAKAGVKAGDIIT SLNGKPLNSFAELRSRIATTEPG TKVKLGLLRNGKPLEVEVTLDT STSSASAEMITPALEGATLSDG QLKDGGKGKIDDEVVKGSPAAQ AGLQKDDVIIGVNRDRVNSIAE MRKVLAAKPAIIALQIFPVDHR GAIGGQTTDIPDPGGINHDCR MKGLSFAGEMVITYTNTAHRRA FTNQPRDFMSVAWLKGKGIILP SVGEVRSPVAGRIASLFATLHAI GIESDDGVEILIHVGIDTVKLDG QIFSAHVNGEAGLKRVVKKEH AD/VQRHAESV*RRGQAQGT GIRRDNRVQPGCERCTHQLLR
24405	54773	A	24543	95	599	QIMRMLNGSSTPNTSLPTPQAF DRSLPINATSARPSSTSTRHSAE SSISRDCVSNVS/HSGG*GGIK G*CHAHPADLTACHEADSRGSP SHAVAAVALHVID/GWYLGDDQ TAAYATGSVAVSCPSGNQFSRP SAAGRFSVAVSAPQGAQRHPGR ARRRPRRRRTAGGCRR
24406	54774	A	24544	640	890	LANAQLGSNEISIFQCFAAIQRFI KLHRDASVINHPLAE/TRK*YPV SVYHLRHPPAIR*PAIRDNA**I LPVTPGYSCSRHQ
24407	54775	A	24545	3	257	ETDIFICDSREFFHHFAKASVHI* PVVSIAFQSGKILALGAENI ATTSDRRAQRQKAVCKAHDAS SVSFRTLSVRPTNDPCP
24408	54776	A	24546	332	1047	RTRPYCPGMGNEPMTGWMAA AVVTLMIRMCFSVYTMLESC QRMVIVGYGRCFADRQNL MVC LRSMPNVFTGSCARMRCCLSEN LLYRHRNGHIQAEWP*KKAISD VKQYRTSCWERWNAASATIFR/ LSPVEWLT DNGSCYRANETRQ FARMLGLEPKNTAVRSPESNGI AESFVKTIKRDYISIMPKPDGLT AAKNLAEAFEHYNEWHPHSAL GYRSPREYLRQRACNGLSDNR CLEI
24409	54777	A	24547	1200	1544	LTGVADGNVDKPCYKFARLW YWIYPAFPPIRRVKVAYREYRP PTTPRVQRVDLTFCHRPAIPDR MHRV*SSHRALPGCWSKVPAQ KSSRTVSGTD*VDLLSPRAQRA PSPLQG

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24410	54778	A	24548	263	625	
24411	54779	A	24549	742	851	VSAQQRVILNKIAVLNRK*RYG CWRLWICPYISRHLLSLNPLQA RCRRYSRGER
24412	54780	A	24550	1	532	MKTLLIIDANLGTRLYGEDPAG AAARKAKLEIIDNPDAEMAIV LGDSIPNDSALNGKNVWLGDIS RAVAHPELFLSERKGHAKPYTA PVAATAPVGASGPKRVVAVTA CPTGVAHTFMALKPLKPKRKN VAGIPDTGQYGETVQTSCW/AA VETPLRQRSSVVS SGVADG*WF MLPG
24413	54781	B	24551	1	888	
24414	54782	A	24552	1	2283	
24415	54783	A	24553	992	1662	KKAISDGALTGSSSAVITERDC VSRSRWTAIVVRHCTGRSLPAA STVKQYRTSCWERWNAASATI FR/LSPVEWLT DNGSCYRANET RQFARMLGLEPKNTAVRSPESN GIAESFVKTIKRDYISIMPKPDG LTAAKNLAEAFEHYNEWHPHS ALGYRSPREYLRHGLVSFISSLQ KFINDFAFEDGLFSGYDAEKRQ YEKSSWNYQLDENGYAKRDET LTHPRC
24416	54784	A	24554	1	2262	
24417	54785	A	24555	158	410	
24418	54786	B	24556	1	2607	
24419	54787	A	24557	715	1016	KSAAVPRSGASSQSDSAHFAQP EYAAFSRFRPGSFRHPRAA*YF GRLNHHVRSERGINP*YHRFNL HWRYVADAISADGAFRTVSGG GGRRSGAGRVDWQ
24420	54788	A	24558	652	1214	RTDHCVSRSRWTAIVVRHCTG RSLPAASTVKQYRTSCWDRWN AASATIFR/LSPVEWLT DNGSCY RANETRQFARMLGLEPKNTAV RSPESNGIAESFVKTIKRDYISIM PKPDGLTAAKNLAEAFEHYNE WHPPSALGYRSPREYLGQRACT GHAIGSGPSSAFFGAPVRRVSRT SVTAKACPRGLL
24421	54789	A	24559	647	1976	
24422	54790	A	24560	289	574	ETPASSPTLRTSIPSISWMTRGSL RRVMLLCFPFSESGTVSEKAWP EWSSFSSSPSCRTSASSPPSHLR /NIDVSPKHVVVFATIPRNYTMSF LPR
24423	54791	A	24561	816	1375	

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24424	54792	A	24562	1	3993	MSQKLKVVVTIGGGSSYTPELLE GFIKRYHELPVSELWLVDVEGG KPKLDIIFDLCQRMIDNAGVPM KLYKTLDREALKDADFVTTQ LRVGQLPARELDERIPLSHGYL GQETNGAGGLFKGLRTIPVIFDI VKDVEELCPNAWVINFTNPAG MVTEAVYRHTGFKRFIGVCNIS IGMKILKTRTLDTTGSTSTGDTL LTQSLLMELSALCRVEVEEGLA LVALIGNDLSKACGVGKEVFG VLEPFNIRMICYGA
24425	54793	A	24563	1136	3608	KKAISDGALTGSSSAVITERDC VSRSRWTAVIVRHCTGRSLPAA STVKQYRTSCWERWNAASATI FR/LSPVEWLTDNNGCYRANET RQFARMLGLEPKNTAVRSPESN GIAESFVKTIKRDYISIMPKPDG LTAACKNLAEAFEHYNEWHPHS ALGYRSPREYLRQRACNGLSD NRCLEIYGQIQLGTGELNITTGV VVTARDTHIALNFQKRRTTGLA TQSRQRCQNRVRVMGKIVIYRD AIRFTTQLQTATSINKRTQRVSG ICRRYTNNMASRCNRHQAIVHIM FAYQRPFFHFAHFFAIQQNFPGS IGGQLFRLPVTLLTHQLLLAPA AHRHGLFQVDVIFRPDNTALPR NDTHQMVELFLDRFQVVKDIG VIELKVVEDQRTRAVMKNKFRA FVEKGAVILIRFDKKKDIFLQYR FHTRISTGHGVANNHQIRLRLE LAGIVPLNQLNPLPLNSVPMINI MNGGENADNNVDIQEFMIQPV GAKTVKEAIRMGSEVFHHLAK VLKAKGMNTAVGDEGGYAPN LGSNAEALAVIAEAVKAAGYE LGKDITLAMDCAASEFYKDGK YVLAGEGNKAFSTSEEFTHFLEE LTKQYPIVSIEDGLDESDWDGF AYQTKVLGDKIQLVGDDLFVT NTKILKEGIEKGIANSILIKFKAQ HAGLLHMYTCAMLGVGQCW RYCMSQAFKEDRFAQDQRVAV
24426	54794	B	24564	83	2851	
24427	54795	B	24565	1	1578	
24428	54796	A	24566	574	753	
24429	54797	A	24567	1	2112	
24430	54798	B	24568	27	969	
24431	54799	A	24569	1	1773	

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24432	54800	A	24570	822	984	PSALCGCHSL*CSNASARFFAA VNPSGAFGCRADHPDGELFLTG YVADGGYHS
24433	54801	A	24571	1	4287	
24434	54802	A	24572	1	2384	
24435	54803	A	24573	3	3682	ACSARPSEAELLEIDTLNADN TIDGILVQLPLPAGIDNVKVLER IHPDKDVGDFHPYNVGRLCQR APRLRPCTPRGIVTLRLRYNIDT FGLNAVVGASNIVGRPMSEML LLAGCTTTVTHRFTKNLRHHVE NADLLIVAVGKPGFIPGDWIKE GAIVIDVGINRLKGVVGDVV FEDAAKRASYITPVPGGVGPMT VATLIENTLQAMSNMATFSLGK HPHVELCDLLKLEGWSESGAQ AKIAIAEGQVKVD
24436	54804	A	24574	1	1382	MLRGVNVLADAVKVTLGPKG RNVVLDKSFAGPTITKDGVSVA REIELEDKFENMGAQMVEVA SKANDAAGDGTATTATVLAQAI TEGLKAVAAGMNPMDLKRAS RSRKGYPARIRQELNQGKISR EATEKAMRECDIDWCA**RF*S DKHHHRT*RQ/PTRHRYPDES PGSHNHRSAHALSSAQGYILLP RAVLSGWRFENVHPTPGYPAG SGSVFVPPMTSRRLPAPDNFA APHRYRVLKTGLLSPGCHVRN ADTL
24437	54805	A	24575	466	1215	
24438	54806	A	24576	1104	1923	LAIPMKDFITEAWLRANHTLSE GAEIHLPADSRLTPSARELLES HLRIKFIDEQGRLFVDDEQQQP QPVHGLTSSDEHPQACCELCRQ PVAKKPDTLTHLSAEKMLVAKS DPRLGFRAVL DSTIALAVWLQI ELAEPWQPWLADIRSRLGNIMR ADALGEPLGCQAIVGLSDEDLH RLSHQPLRYLDHDLVPEASHG RDAALLNLLRTKVRETETVAA Q\VFITRSFEVLRP\DLQALNRL SSTVYVMMILSVTKQPLTVKQI QQRLGETQ
24439	54807	A	24577	243	644	HAGSVCPSLYRCQRTAKRSGFY LLLKRLWSFSGNI*IHSGQQNPG RNQQLGLPRSRKGESSRAHPSC QRRPQVWPHPLAGSRPPRPWA ACARLGPIAPARQIPERWPGQV PVLADAHVLPCLAGSLRPALYD F

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24440	54808	A	24578	237	454	RSRLPEGVPVCWCNHSVR*RDC RFPVGKHLHRLWL/LALPGVRLIF RASTKRITGYINARSASIASASA RNRLV
24441	54809	A	24579	377	1155	KAYSFATMKSLAISCRWQNA*S HVSTFVMVRW/LKGVQFRNHEI IGDIVPLAKRYAEEGADELVFY DITASDGRVYPTLITRLADRFG VQCIVVGIDTWYDARNLKDISV VGLLGAQVPSVRAGMPQSRQ TEGAQGMVRNEEGSLRLSHH QACKATHHTQQWTLEVTAAQSSY NLFPEQWVKLFWGIRQGDPL AFSQKLSRQTFQQQQQTQTPRPI VGQAPKDLQTGTGTPQTHAVH SGDHAAGEQSCKSCKAPIYPLT AQFSLETRSFVGSEWGYSTHG ELRRRDKGRRRFY
24442	54810	A	24580	1107	1458	RTFWWTTCNLAPCAGGYPST GAALPVSRKLPGRGLLLSGWG EHNARYRAGTFLWALFCAAAV AYWRRCAWGQYGMWFLRIRRG TLGDGTIRRVFVGS LWAAVVIV EIGVEHIGVFKA
24443	54811	A	24581	171	352	PPAPPAESDGLPAHTTRARTTA DDLNRNKRQHVGC*YRTRGSP RPNRTWWRVCRYRSPHR
24444	54812	A	24582	5	226	
24445	54813	A	24583	476	1939	RPESQHNTAKPAMKVLEQARR FLGIRWLSAPASLAN/PVILLVV GNILNIVLDVWLVMGLHMNVQ GAALATVIAEYATLLIGLLMVR KILKLRGISGEMLKTAWRGNFR RLLALNRDIMLRSLLLQLCFGAI TVLGARLGSDIIAVNAVLMTLL TFTAYALDGFAYAVEAHSGQA YGARDGSQLLDVWRAACRQSG IVALLFSVVYLLAGEHIIALLTS LTQIQQADRYLIWQVILPVVG VWCYLLDGMFIGATRATERN SMAVAAAAGFALLTLPLWLG HALWLALTVFLALRGLSLAAI WRRHWRNRPGTGCLNTKGS QQQHRHDSTTQHIHLQLLVIRV KTTTTNNSQQTQYPCQYHT DSRQHRQQNRMVCQRIPHALPS PRFRQISRGSTAKVPCAKARAF LRVKS DPTLITRLADRFGVQCIV VGIDTWYDAETGKYHVNQYTG DESRTRVTQWETLDWVQEVQK RGAGEIVLAYVSE

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24446	54814	A	24584	1	50	
24447	54815	A	24585	354	456	HLFSEACCSPGVRLRELCPF*SP GTDRNLVMHGH
24448	54816	A	24586	494	835	ITWLPGRPPFQSQEQFCLAGVP GATGGSESVLHTRNSYKMLEV RREVAALISALKVSAKCRNCGS SHALTEP/ASSPCWRETSTRPTG APAPTIPPPAASPSPGPMCVQPH GED
24449	54817	A	24587	3	726	
24450	54818	A	24588	1	1635	
24451	54819	A	24589	1614	2454	RTTHAPASTPNTGTMLCRPYPC CWRRTKTPHFRATPQWFVSMD QKGLRAQSLKEIKGVQWIPDW GQARIESMVANRPDWCISRQRT WGVPMFLFVHKDTEELHPRTL ELMEEVAKRVEVDGIQAWWD LDAKEILGDEADQYVKVPDTL DVWFDSGSTHSSVVDVRPEFA GHAADMYLEGSDQHRGWFMMS SLMISTAMKGKAPYRQVLTHG FTVDGQGRKMSKSIGNTVSPQD VMNKLGA DILRLWVASNDYTG EIAGSDENLKRACHYNACSL ARRRH
24452	54820	A	24590	362	517	TKSLISSMSSISSPPVVICRNSS PEV**RKI*LGTELEFVIMVIAVS AWP
24453	54821	A	24591	250	930	
24454	54822	A	24592	1388	1912	VCPAAMTGFAAGSPFCTAVVTFP DITPLLWILMC*LAILMAESEPK AISPPTISVVP*YAAESLLRVRI VPSFVTSPLPLILCVIAQLRSVE MVSRLITEASPRFFCSLTLSA LPVSMLNCPTKRLLSPSNSTSVL AVALTIPFPLMLLRSSPVTFFSV NRPSWAIFPLPNP
24455	54823	B	24593	1	6018	
24456	54824	A	24594	510	1003	VALQADQKHKHERPLPPPIPTM FQLAQPGVQLHAKPVYQVP/V MMQATEPTGI*VRIPVLSISTNA PSITSIWPLFVRKISVLTLASVV AASHAASSPRQCAIRCKIWGRW AGSLRRDDGFGVRSRGSRYGA SVSISNFSAGINGKSSRSSSPRRS SQTQPVMPI

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24457	54825	A	24595	197	4314	RASTELSLRCCAPSLQ/ALLHFL YLACFTWMLLEGLHLFLTVRN LKVANYTSTGRFKKRFMYPPVG YGIPAVIIA VSAIVGPQNYGTFT HCWLKLDKGFIWSFMPVAVII LINLVFYFQVLWILRSKLSSLNK EVSTIQDTRVMTFKAISQLFILG CSWGLGFFMVVEVGKTIGSIIA YSFTIINTLQGVLLFVVHCLLNR QINSLLLTWTLWILRQRLSSVN AEVSTLKDTRLLTFKAFAQLFIL GCSWVLGIF
24458	54826	A	24596	1409	1573	
24459	54827	A	24597	1283	1563	
24460	54828	A	24598	281	839	CVPTTDLVVQSQI*PRWRNWPR CSCSHVSMKAASSPERTFTYCS GIYWLISGSGIGVSVPLISIGES VINLAVRPVIAHAIRVAITTRQT TRVAVTVVVALPVFRAVEHHV FQHLTQTRTGFRWHQFFNRRQ REQSFTQGEQQRWANFQNGKV VNHQLAQRLRRLIIGRVRFENQ RFVVFDHLA
24461	54829	B	24599	1	5652	
24462	54830	A	24600	559	1665	RVERKATIEMKSQRTTSDSWLII LAKQTGIIRAACKGKKTIFILHD GPPYANGSIHIGHSVNKILKDII VKSKGLSGYDSPYVPGWDCHG LPIELKVEQEYKGPKGEKFTAAE FRAKCREYAATQVDGQRKDFI RLGVLGDWSHPYLTMDFKTEA NIIRALGKIIGNGHLHKGAKPV HWCVDCRSALAEAEVEYY\DK TSPSIDV/AHPFMGFDVPAILGD HVTLDAGTGAVHTAPGHGPDD YVIGQKYGLETANPVGPDGTY LPGTYPTLDGVNVFKANDIVVA LLQEKGALLHVEKMQHSYPCC WRHKTPIIFRATPQWFVSMDQK GCDIGFHASSNGKRRADDSTDN HVRRLCARQRGQPHPHQFQRT

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24463	54831	A	24601	1	1190	MTDFRESDTMSLFDKKHLVSP ADALPGRNTPMPVATLHAVNG HSMTNVPDGMIEIAIFAMGCFW GVERLFWQLPGVYSTAAGYTG GYTPNPTYREVCSGDTGHAEA VRIVYDPSVISYEQLLRKYRCV AVALLGYFKCKPILLNPSYKSM QDDLAFIARFHFKDLKFRFSL KADQKSRIYERVLSIAGVNSWK DKQHQPRLVEHLLVCAESWVA PRA\FDAAIEYLAHQKIAIPAYL VAFLVLGPLVLSLIPSQLPSLT WSSITYSIVVIVEAGYQYHSRLR RFGRVEVNEQIEYLIHNPIRTRA RAVNFVDNNRLQAPRILRQDS WWITRPLPGLTWAIIGSPGILPQ VVKSARVMKQAVAYLEPFIEA SKEQGKTNGKMVIATVKGDVH DIGKNIVGVVLQCNNYEIVDLG VMVPAEKILR*KLGGTPRTL*R SNRVPGPPEDRHSCFLGCV/YW FLVP*CCLSSLRRCCRR*RGQAS RIQ*LLSSKLAISTIL/GLRRFGR VEVNEQIEYLIHNPIR/IARQGG QLC**QQSASGPTDITAGFMVD HQTFTGADVGDNRVARNPATG GQIGARHETGGGLPRTVY*SQQ RAGQNQRQDGDHRHREGRRPRH

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24464	54832	A	24602	1	1591	MGILVSPLLAPLIGGLDTMWN WRACYLFLLVLCAGVTFSMAR WMPETRPVDAPRTRLLTSYKTL FGNSGFNCYLLMLIGGLAGIAA FEACSGVLMGAVLGLSSMTVSI LFILPIPAFFGAWFAGRPNKRF STLMWQSVICLLAGLLMWIP DWFGVMNVWTLVPAALFFFG AGMLFPLATSGAMEPFPFLAGT AGALVGGLQNIQSGVLASLSA MLPQTGGQSLGLLMTLMGLLI VLCWLPLARGYRLSSWTSTTAS EDIDCEECDGEGNETHGLQLAV EPEGLQPNYMGRGKIRFRDTCL LFCTQSRGSQWGFARTELVALL PPFLSGAADYRAGLALWLARG ADCDVDERHRADRQSNLARSS GGFIALAAGAKSDRRLRELNQS LQKELARNQH LAERLLETESV RRDVARELHDDIGQTITAIRTQ AGIVQRLAADNASVKQSGQLIE QLSLGVYDAVRRLGLRLRPRQ LDDLTLEQAIRSLMREMELEGR GIVSHLEWQSMNQR*AKTSA* RCFVSARKG
24465	54833	A	24603	1	1752	
24466	54834	A	24604	1	699	
24467	54835	A	24605	965	5516	
24468	54836	A	24606	84	3760	
24469	54837	A	24607	27	278	

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24470	54838	A	24608	311	2529	REWGSTRRCERRISLSRNIARW RTIWRITRPCRRCVFRFIASLR LHLHLIMNDLPLEEYPCVRDLV PGRFLKFL/HRDPKGTTLVLASD LPGRIPVDPRSIIIVMLFLAVRWL QRQLAGQELLETRATRILNGER GSNVLGTIYEWPPRTSSALDTL LREIQNAREQHSRLDTLIRSYA AQDVKTGLNNRLFFDNQLATL LEDQEKVGTHGIVMMIRLPDFN MLSDTWGHSQVEEQFFTLTNL LSTFMMRYPGALLARYHRSDF AALLPHRTLKEAESIAVFRALS RLPDLWHRSIGTLTEALPQTDK RQEQIAVALTSYSGLYGLGYGS KEIQLTYSGTAGDLISPLSAIH GRCILNTLVFIVKLRWMENTLH RFGTHHGCSAVRSSHLDSGSPR RSSWHMARARNHIHVLEENMA LLMEQAIANEGLFYRLLYLQRS LTAASSLDDMLMRFHWARDL GLAELLVVLPEAKAVGSVAMS MLGSDADWGVVLFSTRDASHY QQGQGTQLLHEIALMLPELLER WIERGWEQQVWRYGFLRYVAF LTGWSAQNELKANPAKGVSAP KAPRHLPKNIDVDDMNRLDID INDPLAVRDLMYGAGRLSELV GLDIKHLDESGEVWVMGKGS KERRLPIGRNAVAWIEHWLDL RDLFGSERERRQHAGTNVLQT ADQRASRARQEGERLHRAAGR
24471	54839	A	24609	1	1749	
24472	54840	A	24610	1	2911	MNIDAKILNKILANRIQQHIKKL IHNNQVSFIPGMQGFNIHKSM KVIQHINRTKDKNYMIISIDAEK AFDKIQPFMLKTLKKLVAGM MAVAAPDDPPPSVSSSKPSTV APPGRISPSGRALCTSLPSALSSS SKFSLLRIFQVPAKLGMVAVAA AAGVNAMLRKVAVAAASKPH VEIRQDGDQFYIKTSTTVRTTEI NFKVGEGFEEETVDGRKCRVR PQSHYSVPVSPLGAHGPLLLEE PVSPFAACGAPS
24473	54841	A	24611	249	609	QIEVCVRIKPKAGTVLAYS*RSR QERPPAPGMTSLSLAAVSSDNP VSGDEHIRLARASGRFGIGRVA QPKRIQRRSSTPRAATDLGNPG HRPCTVRKSALLVVSVCRRHSS RSLRFRSC

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24474	54842	A	24612	942	1121	
24475	54843	A	24613	1010	1658	EISSSKRSRTVCKRRAPMFSVDS FTCHAASAMRLIPESVNSIFTPS VAISALYCTVIEAFGSVRIRSKS LVVSACSSSTRIG\DDLAVPGSGQ TVSQSGTRQKR*TECGQF*PSR VWWKRCNLLPAAAGHAERLH EKHPDRKTRRVRLVWLAGPPT RLLGTMGAGTLVLGACCLPWP REGAHNVATAACGGWRARCD LRFRLSCKLGLSRQFFGWN
24476	54844	A	24614	1	1995	
24477	54845	A	24615	1	2853	
24478	54846	A	24616	1	1755	
24479	54847	A	24617	2942	3454	SVPDWLMCTAFLSLSRINSPRL LKAELLTSSIPVLLPSLLPRFQ VPSLFATAVPVSAAPLIHAPSV*L LKTPPADIRPVTLPLLLNTPAFC TILLMVPVLFTNELSAPAFMVIC AVISPALLRIPPLTSTLFVITPAF LMTAPLSSFTKLLMMPPPLVFSR RPLDTVI
24480	54848	A	24618	1	2959	MKRYRPREILPWKVPPGNYTPK IFKIKGTGHNPM SAIENFDAHTP MMQQYLRLKAQHPEILLFYRM GDFYELFYDDAKRASQLDISL TKRGASAGEPIPMAGIPYHAVE NYLAKLVNQGESVAICEQIGDP ATSKGCCRSNGNRNGGRKIVAVS LKKVSGAAKPCGHFRSTRYRV AYSTIINN KAGIWSAFEGVSAT RPNPTPRASPAVRTLSRGTPPEPR KISTDADNLAQGS LKERLPAWL WGKKENSKWEVLD
24481	54849	A	24619	441	1425	
24482	54850	A	24620	1	2574	
24483	54851	B	24621	1	1725	
24484	54852	A	24622	160	390	
24485	54853	A	24623	892	1183	
24486	54854	A	24624	1	2493	
24487	54855	A	24625	435	829	ASDVLVSEGCR/YRGASALTST SVICINTDKALRKIIRLPLNGLR KPLNAMTPLPGITWPLCITTEKE DLSISDRLSTCIVKFSHPPEMS VRKFVPPAILLCSVCLRFSCPTR HQA KAPAKWILKSCSA WMR
24488	54856	A	24626	763	1863	
24489	54857	A	24627	1423	1712	

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24490	54858	A	24628	1	2792	MTYLSAQDHELIQVVQNGHLQ MCGKSETGNEASPVKCIVLQVL RGLQYLHRNFIIHSQEQTIPDPSI SDQQETPLLAGDMAQRGRRGG FYYVTAIYIVDKKAPVHMRTA AQGLITLCCQGFGSLLGYRLGG VMMEKMFAYQEPVNGLTFTNW SGMWTFGAVMIAIIAVLFMIF RESNEITAIVMEDSMSSATT LTPQEQVDSLIMQIAEENGLE VLDQLSQLPEGASA VGESSVRS QEDQLSRSFICLMAMM
24491	54859	C	24629	213	345	
24492	54860	A	24630	1	474	MHQTAKTPHTSYPNNYEEHN RRANRSKNYDRIRHTTIILKRTN PAQTITNLLKSRFNRYNYVQPR SCRSIFIHIPGERDLNLCIAPNPP AIFPTSIGYLGPDNLNLPYAPFI TTNLTGPAPTTTHPVGNLGTG NPEPGGCGILIVWCCVNWACL WDSVVAAPREPYMPAGLLRHR RHYRHRREDLIAVPAARQTDE NRRPALCHEYAVGHRKIKTNV EHTEPYILPLITHSQPLNRGAFF CPGVRFLVVSVD FEKRL**RR WRRSPAGI*GSRGAATTLSQRQ AQLTQHQTIRIPHPGSGLPVVP KFPTGCVVVGAGPVRV FVING
24493	54861	A	24631	1	924	
24494	54862	B	24632	177	468	
24495	54863	B	24633	592	883	

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24496	54864	A	24634	1	1926	MATAKANQEIQEWLGKYGTAR VKLNVDKDFSLKDSSLEMLYPI YDTPTNMLFTQGAIHRTDDRTQ SNIGFGWRHFGNDWMAAVIT FIDHDLRSRSHTRIGVGAEYWRD YKLSANGYIRASGWKKSPDIE DYQERPANGWDIRAEGYLPW PQLGASLMYEQYYGDEVGLFG KDKRQKDPHAISAEHSPEFRSE ALKLVNASVLLPQPVNSACMN HNSTTGAVNSKISRLLNVNW RCLPRLHVSNASWQNGMKSWL SSKRPRHTSEAPEMKYVFIEKH QAEFSIKAMCRVLRVARSGWY TWCQRRTRINIAVVRADGSRT SFVYTSYLAKVNEEWKNNVGT GSTVKWPIGLGGKGNDGIAAF VQRLPGAIGYVEYAYAKQNNL AYTKLISA*NEVCLY*KTSG*V QHQS NVPR/RSGWPAAAGIRGV SGGQG*TLL*YAAQMAPELPSS TPATWRK*TKSGKTTLV/HGST VKWPIGLGGKGNDGIAAFVQR LPGAIGYVEYAYAKQNNLAYT KLISADGKPVSPTEENFANAAK GADWSKTFAQDLTNQKGEDA WPITSTTFILHKDQKKPEQGTE VLKFFDWAYKTGAKQANDLD YASLPDSVVEQVRAAWKTNIK DSSVNFDMANVFFRVTPGNFL VNREASHQRRVFAVRAGVDFI YRASSDGLRRCRDRTRFRKRN
24497	54865	A	24635	1387	1639	ESKPLNLGRSGFLLTRALSAQ PLWQSPDQHLTPQAGLRSRL*A QRQA*QKTASRVV*PKPLWAL VKATSEDISVVL*ESACQC
24498	54866	A	24636	1570	2516	IEVAMSIVVKNNIHVWGQRDW EVRDFHGT EYKTLRGSSYNSYF IREEKNVLIDTVDHKFSREFVQ NLRNEIDLADIDYIVINHAEDH AGALTELMAQIPDTPIYCTANAI DSINGHHHP EWNFN VVKTD TLDIGNGKQLIFVETPMLHWP SMMTYLTGDAVLFNYDAFGQH YCDEHLFNDEVDQTELF EQCQ RYYANILTPFSRLVTPKITEILGF NLPVDMIATSHGVVWRDNPQT IVELYLKWAADYQEDRITIFYD TMVNNTTPMADAIAQGIAETG PRLAGENFNVARNDKHEDPDL LSFRSERGA

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24499	54867	A	24637	24	363	
24500	54868	A	24638	2	366	RATPRHIIVRFTK VEMKEKMLR AAREKGRVTLKGKPIRLTADLS AETLQARREW*QNLSAFACL*R ILFLLHL*SLVWLDMKCWVENS FL*EC*ILAPTLFWLVGFLPRDP LLV*WASL*G*PDLSLWLPLAF FPSFQLW*I*QLCVLELL
24501	54869	A	24639	232	292	
24502	54870	A	24640	4	911	
24503	54871	A	24641	2795	3226	SWWISFLMCCWIWFASILLRIFA SMFIKDIGLKFPLVVS LPGFI RMMLAS*NELGRIPSFSIGWNSF RRNGTSSSLYLW*NSA VNPSGP GLFLVGKLLVIASISEPVIGLFTD STSSWFSLGRVYVSRNLSISSRF SSLFA
24504	54872	A	24642	1	3285	
24505	54873	A	24643	1	4368	
24506	54874	A	24644	200	335	YALLNKDSSPWYPFSVPV LASN TRYLWPLSST**GSLSVWLSPD V
24507	54875	A	24645	174	263	
24508	54876	A	24646	1244	1354	

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24509	54877	A	24647	194	2481	GMFRMNLMEPLTQCINAGHEM TKAIAIAQFNDDSPARKITRR WRIGEAADLVGVSSQAIRDAEK AGRLPHPDMEIRGRVEQRVGY TIEQINHMRDVFGRRLRAEDV FPPVIGVAAHKGGVYKTSVSVH LAQDLALKGLRVLLVEGNPDQ GTASMYHGWVPDLHIHAEDTL LPFYLGEKDDVTYAIKPTCWPG LDIIPSCALHRIETELMGKFDE GKLPTDPHMLRLAIETVAHDY DVIVIDSAPNLGIGTINVCAA DVLIVPTPAELFDYTSALQFFD MLRDLLKNVDLKGFEVDVRILL TKYSNSNGSQSPWMEEQIRDA WGSMMVIKNVVRETNEVGKAA PMVDSLIARVGVMAIGNAITLP VCGRDVKFTLEVLRGDSVEKTS RVWSGNERDQELLTEDALDDLI PSFLTGGQTPAFGRRVSGVIEI ADGSRRRKAAALTESDYRVLV GELDDEQMAALSRLGNDYRPT SAYERGQRYASRLQNEFAGNIS ALADAENISRKIITRCINTAKLP KSVVALFSPHGELSARSGDALQ KAFTDKEELLKQQASNLHEQK KAGVIFEAEVITLLTSVLKTSS ASRTSLSSRHQFAPGATVLYKG DKMVLNLDSPQSFSFGAGDHA NSPQSSSPSTGVHINSPQLSSLS AGVHTISPQSSNPVGVLTALSHP DLVWVFTLTAHSRPVLVWVFT
24510	54878	A	24648	1361	1694	
24511	54879	A	24649	1	3852	MKLMETLNHCINAGHEMTKAV AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGRRLRAEDVFPPVI GVAAHKGGVYKTSVSVHRAQ DLALKGLRVLLVEGNAPQGT SVYHGWVPDLHIHAEEALLPF YLGEKDDVTYAIKPTCWPGDI IPSCALPRIPELMGK/FDEGRS FMPGPP/HHHPLGRSSQ*QVSNS LDRAAKGN*KPLCHC

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24512	54880	A	24650	1	1720	MEKLLLENDLSKDVSRLETVF VPPEKHEKEIIALKSNIVELKKQ LSELKKKCGEDQEKIHALTSEN TNLKKMMSNQYVPVKTHEEV KMTLNDTLAKTNRELLDVKKK FEDINQEFVKIKDKNEILKRNLE NTQNQIKA EYISLAEHEAKMSS LSQSMRKVQDSNAEILANYRK GQEEIVTLHAEIKAQKKELDTIQ ECIKIMKRAPVIPKHTLNTQPVE DTSLSPTAAPMVDSLIARVGVM ARGNAITLPVCGRDVKFTLEVL RGDSVEKTSRVWSGNERDQEL LTEDALDDLIPSFLTGGQTPAF GRRVSGVIEIADGSRRRKAAAL TESDYRVLVGELDDQMAALS RLGNDYRPTSAYERGQRYATR PQNEFAGNISAMADAENISRKII TRCINTAKLPKSVVALFSPHGE LSARVIDSAPNLGIGTINVCA ADVLIPTPAELFDYTSALQFFD MLRDLLKNVDLKGFEVDVIRLL TKYTNINASQSPWMREKFGMA WESMVLKNVVRETDEVGKGQI RMRADFVQAIQDRSSTGAWRN ALSIWEPVCNEIFDRLIKPRSEIT
24513	54881	A	24651	1094	2271	APFHRPHTKQSLQEQTDVVSIN EFLKQMAF*AQKLKE/WRTSAA SDITPAGFCSCRAIKDAEKPGR LPHPD\MEFRDRVDQ\RVVSPFGQ I\HMRNVFGPRLPRAKDVFPV IGVAAHKGGVYKTSVSVHLAQ DLALKGLRVLLVEGN\DPQGT ASMVSREGDPALHIYQEAPFLP FYLGEKDDVTYAIKPTCCPGLN IIPSCALPRIETELMGKFDEGK LPTDPHMLRLAIETVAHAHDY DVIVIDSAPNLGIGTINVCAAD VLIVLTPVEMFDYTSARQFFD MLRDLLKNADLKGFEPEVRIL LTKYSNSNGSQFP\WMEEQIRD AWGSMVLKNVVRETGEVKGK QIRMRT\VEQAIQDRSSTDTS LSTPAAPMVDSLIARVGVMASR
24514	54882	A	24652	1	1415	

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24515	54883	A	24653	3008	8165	ILIPFFIGLQNRFTQFRLSETKEIT NPYAMRLYESLFQSSKTNGSG! VSLKIDWIIERYQLPQSYQRMP DFRRRFLQVCVNEINSRTPMRL SYIEKKKGRQTTHIAIRDAEKA GRLPHPDMEIRGRVEQRVGYTI EQINHMRDVFGLRLRAEDVFP PVIGVAAHKGGVYKTSVSVHL AQDLALKGLRVLLVEGNDPQG TASMYHEWVQNLHIHAEDTLL PFYLGKKDDVTYAIKPTCWPL DIIPSCALHRI
24516	54884	A	24654	1	848	
24517	54885	A	24655	2354	3640	NVICNQELVYSSRHQFAPGATV LYKGDKMVLNLDERSVPTEYR YGVFLNVLLPATKYFQLHDPSL RNMELNYSASEDLVLKGLRV LLVEGNDPQGTASMYHGWP DLHIHAEDTLLPFYLGKDDVT YAIKPTCWPLDIIPSCALHRI ETHLMGKFDEGKLPTDPHML RLAIETVAHDYDVIVIDSAPNL GIGTINVCAADVIVPTPVEL FDYASARQFFHMLRPLLKNVD LKGFEVDVIRILLTKYSNSNGSQ SPWMEEQIRDAWGSMLKNV KEFAGNISALADAENISRKIIR CINTAKLPKSVVVFLLTPVNYL PGDALQKAFTDKEELLKQAS NLHEQKKAGVIFEAEVITLLTS VLKTSSASRTSLSSRHQFAPGA TVLYKGDKMVLNLDERSVPTE CIEKIEAILKELEKPAP
24518	54886	A	24656	667	870	QIVSSEPKYTDFLSKIPFEQVR DVQRNGDHTEGA VR*LSIAFFS ALLKLLAFFTEEVRAAAVVRV
24519	54887	B	24657	1	1086	
24520	54888	A	24658	2	250	WRTKSLDIPLIYPNGIVKNILR HLSQLLNVPITRPFSWILRPF*RP *RKISTSFIRPLFTFLPA**MLIRS SVWQ*KTVSW

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24521	54889	A	24659	1	1608	MAETAVINHKKRKNSPRIVQSN DLTEAAYSLSRDQKRMLYLFV DQIRKSDGTLTYMTYRKPDGS GIVSLKIDWIERYQLPQSYQRM PDFRRRFLQCINAGHEMTKAIAI AQFNDDSPARKITRRWRIGEA ADLLGVSSQAIRDAEKAGPLPH PDMENRGRVEQRGGYTIEPNN HMRDGVGTRWRAEDVFPLI GIVAGHKGGRYKTSVSVHLAQ DLALKGLRVLLVEGNDPQGT SMYHGWVDPDLHIHAEDTLLPF YLGEKDDVTYAIKPTCWPGLDI IPSCALHRIETELMGKFDEGKL PTDPLMLRLAIETVAHDYDVI VIDSAPNLGIGTINVCAADVLI VPTPAELFDYTSALQFFDMLPD LVKNRDLKGVEPDMRKQRHR KAKDLLAQDPTAMTTDELLKE ATRCPICTAYLEKPMSECECV FCLSCTNSLQKEPQEGVLCPF CLEASQKNNIRLNRLGLRVSH IKELEPKLKKILKMNFKDAEVP RFSSPKPCSSFFSTCYLSKNCSN HPCYSPYPGSGWG
24522	54890	A	24660	1	1128	
24523	54891	A	24661	1035	1208	SLIDRIEALGIFRAAV*GSAAY HGV*YERRRTFLCMLFGYFLSR RLESLLLPEVQS
24524	54892	A	24662	1	1316	MEIRGRVEQRVGYTIEQINHMR DVFGTRLRRAEDVFPVIGVAA HKGGVYKTSVSVHLAQDLALK GLRVLLVEGNDPQGTASMYHG WVDPDLHIHAEDTLLPFYLGEKD DVTYAIKPTCWPGLDIIPSCAL HRIETELMGKFDEGKLPTDPL MLRLAIETVAHDYDVIVIDSAP NLGIGTINVALQNFRYTGIIH VHRIGMAERMWCDNRNRRHT VSSSGGNRLPNPGPDRSDLALK GLRVLLVEGNDPQGTASMYHG WVDPDLHIHAEDTLLPFYLGEKD DVTYAIKPTCWPGLDIIPSCAL HRIETELMGKFDEGKLPTDPL MLRLAIETVAHDYDVIVIDSAP NLVFRICFVIWAQERIDIKGFEP DVRILLTKYSNSNGSQSPWMEE QIRHAWGSMVLKN/VVRETDE VGKDTGVRKSIWCHNRNSRWE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
24525	54893	A	24663	504	1254	SYVKYFPHQPAQKYFQQIHSAT GLHNADHVHKHLLGDNRYPIW IMQPSAHHPARQPEHDIAFGKC SSSVSVHLAQDLALKGLRVLLV EGNDPQGTASMYHGWVPDLHI HAEDTLLPFYDPHMLRLAIET VAHDYDVVIDSAPNLGIGTINV VCAADVLIPTPAELFDYTSAL QFFDMLRDLLKNVDLKGFEFD VRILVVRVSQRMVVAGCIIAFID KLLNVLICFPFSVKNRFVIFHSV- DFECVIRF
24526	54894	A	24664	1	3216	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPG FGDFADFGTTIKQDFRLLGQTS VDRLLQLSQGQAVKGNQLLPV SLVKRKTTLAPNTQTASPRALA DSLMLARQVSRL/VKRAPTC WPGLDIIPSCALAPRIETELMGK FDEGKLPTDPHMLRLAIETVA HDYDVVIDSAPNLG
24527	54895	A	24665	1	419	MSSSDKDFDFSVANMVNFFAP VFPMGKYTTQADKVLPLAIQE HDGICEIHVAKYAEIFGLTSAEA SKDIRQALKSFAGKEVVFYRPE/ VGCRR*KRL*IFSLVYQTCAQSI QRALQCTYQPISHSLLYRVTEP VYAVSA
24528	54896	A	24666	1	2598	

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24529	54897	A	24667	1	2027	MRGHREKAAACKPRTRASEGT TPASTFILDFQPPNCNYTSGDNH TLRDPHYVEDKGHKYLVFEAN TGTENGYQGEESLFNKAYYGG GTNFFRKESQKLQQSACKRDA ELANGALGHIELNNDYTLKKVM KPLITSNTVTDEIERANVFKMN GKWYLFDSRGSKMTIDGINSN DIYMLGYVSNSLTGPYKPLNKT GLVLQMGLDPNDVTFTYSHFA VPQA*KGILCEEDNYTAGDNHM MRAPHCEEDRAHKFVVFDANA GTESGHQGEESLFNRACGGGGT FFFSKESQKLQQSACKRDCINA GHEMTKAIAIAQFNDDSPARK ITRRWRIGEAADLVGVSSQAIR DAEKAGRLPHPDMEIRGRVEQ RVGYTIEQINHMRDVFGRLLKR AEDVFPPVIGVAAHKGGVYKT SVSVHLAQDLALKGSLLLPKND FLFKLGLEGHLPLGKIHSPTGA DVARGSSGLPKSELFPERNTQ ELQQDSEEGPLALQVLQSNLM DFADFGTTIKQDFRLLGQTSVD RLLQLSQGQAVKGNQLLPVSL VKRKTTLAPNTQTASPRALADS LMQLARQVSRLESGQNNDGIC EIHVAKYVEIFGLTSAEASKDIR QALKSFAGKLVVFYRPE/VGCR R*KRL*IFSLVYQTCAQSIQAL QCTYQPISHSLLYRVTEPVYAV
24530	54898	A	24668	1	989	PWISAPVPVDVVEGAMDSVTV LSFGGLMLYFCAGWPPARRWC FPESISCGSMERDQWWGLQVA KRAGLAGGQSGRTVLRERVRIE IASTHIALAARHSDWRCCRNGR YPARGPAALQNFQRYTGIQHV HRIGMAERMWCDNRNRERTVS SSGGNRLPNPGPDRSCDNLKTC HTSHGSVMAETA VINHKKRKN SPRIVQSNDLTEAA YSLSRDQK RMLYLFVDQIRKSDGTLQEHD GICEIHVAKYAEIFGLTSAEASK DIRQALKSFAGKEVVFYRPE/V GCRR*KRL*IFSLVYQTCAQSIQ RALQCTYQPISHSLLYRVTEPV

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24531	54899	A	24669	350	1203	LLTARLTWVSARLMSDFADFG TTIKQDFRLLGQTSVDRLLQLS QGQAVKGNQLLPVSLVKKRTT LAPNTQTASPRALADSLMQLA RQD/LALKGLRVLLVEGNDPQG TASMYHGWVDPDLHIHAEDTLL PFYLGEKDDVTYAIKPTCWPGL DIIPSCALHRIETELMGKFDEG KLPTDPHMLRLAIETVAHDYD VIVIDSAPNLGIGTINVVCAADV LIVPTPAELFDYTSALQFFDMLR DLLKNVDLKGFEVDVRIILLTKY SNSNGSQSPWMEEQIRDAEGSR
24532	54900	A	24670	1	936	
24533	54901	A	24671	1070	1324	LGTPGGCSRMTALVPLIPNDD TPTRRTRPLLGGQVFSVRS*TV ADQSTSGDGDSTCNVRGSCPCR IAITILITPATPAAACV
24534	54902	A	24672	1	1212	
24535	54903	A	24673	2373	3381	FKRGQYGQLLRPRFHGQILYA RRQGADAAGDSGIW/HGIWTEP MTM*KKDER*PSPTQAS*DNW KSIRGSCWQALSITRN/CKNSPRI VQSNDLTEAAYSLSRDQKRML YLFVDQIRKSDGTLQEHDGICEI HVAKYAEIFGLTSAEASKDIRQ ALKSFAGKEVVFYRPEEDAGD EKGYESFPWFIKRAHSPSRGLY SVHINPYLIPFFIGLQNRFTQFRL SETKEITNPYAMRLYESLCQYR KPDGSGIVSLKIDWIIERYQLPQ SYQRMPDFRRRFLQHIFVLRER PETVLIDLIQRTKDAVRELDNL QYRKMKKLLFQEAHNGPAVEA QEEEEDD
24536	54904	A	24674	31	811	RRGLLGTRLRLSEDVFPVVLGV AAHKGGVDKTSVSVHLAQDLA LKGLRVLLVEGNDPQGTASMY HGWVPELHIHAEDTLLPFYLGE KDDVTYAIKPTCWPGLDIIPSC ALHRIETELMGKFDEGKLPTDP HMLRLAIETVAHDYDVIVIDS APNLGIGTINVVCAADVLIPTP AELFDYTSALQFFDMLRDLLKN VDLKGFEVDVRIILLTKYSNSNG SQSPWMEEQIRDAWGISMVLK NVVAFQNLEFLFILLRIWL
24537	54905	A	24675	1004	1105	

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24538	54906	A	24676	1	1139	MEKKITGYTTVDISQWHRKEHF EAFQSVAQCTYNQTVQLDIKK KLKTVKKNKHKFYPAFIHILAR LMNAHPEFRMAMKDVAEYNG YHVVFALAGSPKDADDTSIYM FYQKVGDN SIDSWKNAGR VFK DSDKFDANDPILKDQTQEWSGS ATFTSDGKIRLFYTDYSGKHYG KQSLTTAQVNVSKSDDLTKING VEDHKTIFDGDGKTYQNVQQFI DEGNYTSGDNHTLRDPHYVED KGHKYLVFEANTGTENGYQGE ESLFNKAYYGGGTASSIRKSDG TLQEHGICEIHVAKYAEIFGLT SAEASKDIRQALKSFAGKEVVF YRPE/VGCRR*KRL*IFSLVYQT CAQSIQRALQCTYQPISHSLLYR VTEPVYAVSA
24539	54907	A	24677	1	930	
24540	54908	A	24678	1	2486	MNMNIKKIVKQATVLTFTTALL AGGATQAFKENNQKAYKET GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DKWPLANADGTVAEYNGYNV VDKFDANDPILKDQTQEWSGS ATFTCDGKIRLFYTDYSGKHYG KQSLTTAQVNVLSDDLTKING VEDHKAIFDGDGKTYQNVQQQL IDEGNYTSGDNHTLRDPHYVED KGHKYLVFEANTGTENGYQGE ESLFNKAYYGGGTNFFRKESQK LQQSAKKRDAELANGALGIIEL NNDYTLKKVMKPLITSNTVTDE IERANVFKMNGKWYLF TDSRG SKMTIDGINSNDIYMLGYVSNS LTGPYKPLNKTGLVLQMGLDP NDVTFTYSHFAVPQAKGNV ITSYMTNRGFFEDKKATFAPSF LMNIKGNKTSVVKNSILEQQQL TWLQVAKRAGLGGGQSGRTVL RERLPNYKNFKGTIQELGQNQY AVSGEIFVVD RNTVEITELPVRT WTQVYKEQVLEPMLNGTDKTP ALISDYKEYHTD TTVKFVVKM TEEKLAQAEAAGLHKVFKLQT TLTCNSMVLFDHMGCLKKYET VQDILKEFFDLRLSYGLRKEW LVGMLGAESTKLNNQARFILEK IQGKITIENRSKKDLIQMLVQRG YESDPVKA WKEAQEKCDNLKT CHTSHGSMVMAETA VINHKRRK

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24541	54909	A	24679	5	253	SAPKVWRGLRQQGAGISVLP*V CAQP/VQVAKAPELILNFDLPK KYFDKL/R/DTHFFSPHTGKFPT VKILMAPFANSASRGVALC
24542	54910	A	24680	334	842	PDKEGNEIWVDMYTVKPSGWT VRTFDKPRKRFAFFIAGILFRAI KNHFLPRETLQCLPYILTGFRRG QSEYFSIFSNDLADTVMFLVG GHKIFVFHCHTELRSIHQAGK NVNKGRIKLVLIPLYGL*/QRP* YPAERSGYRYIEQLTEMPQNVL YDAIGIYQRWYIQ
24543	54911	A	24681	676	1169	DNLKTCHTSHGSVMAETAVIN HKKRKNSPRIVQSNDLTEAAYS LSRDQKRMLYLFVDQIRKSDGT LQHDGICEIHVAKYAEIFGLTS AEASKDIRQALKSFAGKEVVFY RPE/VGCRR*KRL*IFSLVYQTC AQSIQRALQCTYQPISHSLLYRV TEPVYAVSA
24544	54912	A	24682	1	783	
24545	54913	A	24683	1	1884	
24546	54914	A	24684	1	1131	
24547	54915	A	24685	1	2856	
24548	54916	A	24686	528	725	
24549	54917	A	24687	1	898	
24550	54918	A	24688	1879	2343	
24551	54919	A	24689	1	1254	
24552	54920	A	24690	1	1113	
24553	54921	B	24691	1	1156	
24554	54922	B	24692	1	1980	
24555	54923	B	24693	1	1932	
24556	54924	A	24694	1	663	
24557	54925	A	24695	1123	1764	
24558	54926	A	24696	2	1772	
24559	54927	A	24697	1	1040	MELKTKARELREECRSLRRCN QLEERVSAMEDEMNEKREG KFREKRIKRNEQSLQEIWVYVK RPNLRLIGVPESDVENGTKLEN TLQDIIQENFPNLRQANVQIQE IQRTPQRYSSGRETPRHIIVRFT KVEMKEKMLRAAERKCDNLK TCHTSHGSVMAETAVINHKKR KNSPRIVQSNDLTEAAYSLSRD QKRMLYLFVDQIRKSDGTLQE HDGICEIHVAKYAEIFGLTSAEA SKDIRQALKSFAGKEVVFYRPE EDAGDEKSYEQPSKDIRQALKS FAGKEVVFYRPE/VGCRR*KRL *IFSLVYQTCAQSIQRALQCTYQ PISHSLLYRVTEPVYAVSA

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24560	54928	A	24698	1683	4289	RVFKDSDKFDANDPILKDQTQE WSGSATFTSDGKIRLFYTDYSG KHYGKQSLTTAQVNVSKSDDT LKINGVEDHKTIFDGDGKTYQN VQQFIDEAGNYTSGDNHTLRDPH YVEDKGHKYLVFEANTGTENG YQGEESLFNKAYYGGGTNFFR KESQKLQQSAKKRDAELANGA LGIELNNDYTLKKVMKPLITSN TVTDEIERANVFKMNGKWSK ILVSGTHRARTEVEVTDPIHQQ RMGCCFTVGAGEICEKPTGCFF TPLPNCNCQWTGSAILDRRSHS HPSASGWSVVKVVTGSYQLT HSPGIGLRDFADFGTPHQTGFSP AGANQRGPLVATLSGPGGEGQ SAVARLTGEKKNHPGAQYANR LSPRVGRFINAAGTTGFPTGKR AVSATQLMHFKILVSRHRART ELEVDPGSSAENGLLPVVLL LRKARKTLMPPHSTCFIKRSAP TQSTAGKTRPRVLKDSKFD NDPILKDQTQEWSGSAPFTSDG KIRLFYTDYSGKHYGKQSLTTA QVNVSKSDDTLKINGVEDHKT FDGDGKTYQNVQQFIDEAGNYT SGDNHTLRDPHYVEDKGHKYL VFEANTGTENGYQGEESLFNKS VLRRRHLLPDFADFGPTIKQD FRLGQTSVDRLLQLSQGQAV KGNQLLPVSLVKRKTTLAPNTQ TASPRALADSLMQLARQVSRLE
24561	54929	B	24699	1	2034	
24562	54930	A	24700	1	1038	
24563	54931	A	24701	1	1149	
24564	54932	A	24702	2	823	WPLQNADGTVAEYNGYHVVF ALAGSPKDADDTSIYMFYQKV GDNSIDSWKNAGRVFKDSDKF DANDPILKDQTQEWSGSATFTS DGKIRLFYTDYSGKHYGKQSLT TAQCDNLKTCHTSHGSVMAET AVINHKKRKNSPRIVQSNDLTE AAYSLSRDQKRMLYLFVDQIR KSDGTLQEHGICEIHVAKYAE IFGLTSAEASKDIRQALKSFAGK EVVFYRPEEDAGDEK/ML*IFSL VYQTCAQSIQRALQCTYQPIH SLLYRVTEPGYAVSA
24565	54933	B	24703	1	1206	
24566	54934	A	24704	2	1037	
24567	54935	B	24705	1	1389	

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24568	54936	A	24706	1	602	MGTGDFICISMTGGAPWGFRLQ GGKEQKQPLQVAKWANLKPGP PSHGSVMAETA VINHKRKNSP RIVQSNDLTEAA YSLSRDQKRM LYLFVDQIRKSDGTLQEHDGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPE/VGCR R*KRL*IFSLVYQTCAQSIQRAL QCTYQPISHSLLYRVTEPVYAV
24569	54937	A	24707	1	774	
24570	54938	A	24708	1479	1947	
24571	54939	A	24709	1	696	
24572	54940	A	24710	1	1773	
24573	54941	A	24711	1	1509	
24574	54942	A	24712	1	891	
24575	54943	A	24713	156	242	VAGRGIGYRLSPNKGL*TWSAL CKPIAE
24576	54944	A	24714	1441	1866	
24577	54945	A	24715	1	1098	
24578	54946	A	24716	1	1989	
24579	54947	B	24717	126	848	
24580	54948	B	24718	58	688	
24581	54949	A	24719	1	542	
24582	54950	A	24720	1	675	
24583	54951	A	24721	1	1209	MKMPEKHDLLAAAILAAKEQGI GAILAFAMAYLRGRYNGVLEA RSLKSRQCQSHALAEGRGGPP VTGRFKSTFTADSWNRYSLPSL TGGGNILHSRTHRRTVSRLLGR RWQELLRDVFGTRLRRAEDVF PPVIGVAAHKGGVYKTSVSVH LAQDLALKGLRVLLVEGNPDQ GTASMYHGWV PDLHIHAEDTL LPFYLGEKDDVTYAIKPTCWPA LDIIPSCALHRIETELMGKFDE GKLPTDPHMLRLAIETVAHDY DVIVIDSAPNLGIGTINVVCAAD VLIVPTPAELFDYTSALQFFDM LRDLLKNVDLKGFE PDVRILLT/ KYSNSNGSQSPWMEEQIRDAW GSMGLKNV/VRETDEIGKQIR MRTVFETAMDKRLLTGAWEK AFFFLEPGFEEKSNR

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24584	54952	A	24722	1	743	MIGMELPGLEGTELEGCHEREV VYDRVRVFEKRGEGARHVEARS PGGGSEKRGWGGARHQRMC KGADNGGAGRARRVARLRQL ASRAIGRRKGAVLYQTPVINHK KRKNSPRIVQSNDLTEAAYSLS RDQKRMLYLFVDQIRKSDGTL QEHGICEIHVAKYAEIFGLTL WREASKDIRQALKSFAGKEVV FYRPE/VGCRR*KRL*IFSLVYQ TCAQSIQALQCTYQPISHSLLY RVTEPVYAVSA
24585	54953	A	24723	1157	1471	
24586	54954	A	24724	1	824	MEENERDLEINMINMSKELKVE NIKKHIGMLEKDEIEIIVTKSILI EIEIPTQCLRNLTNHLAASAGN HMSNTACWYGCEFTSVSTFA HQGVGSWDAYEPAASLLLS NLKTCHTSHGSVMAETAVINH KKRKNSPRIVQSNDLTEAAYSL SRDQKRMLYLFVDQIRKSDGTL QEHGICEIHVANYAEIYGLTS AEASKDIRQALKSFAGKEVVFY RPE/VGCRR*KRL*IFSLVYQTC AQSIQALQCTYQPISHSLLYRV TEPVYAVSA
24587	54955	A	24725	996	1169	SLIDRIEALGIFRFAAV*GSAAY HGV*YERRRTFLCMLFGYFLSR RLESLLLPEVQS

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24588	54956	A	24726	3	1743	DSPEIARKITRRWRIGEAADLV GVSSQAIRDAEKAGRLPHPDME IRGRVEQRVGYTIEQINHMRDV FGTRLRRAEDVFPPVIGVAAHK GNDPQGTASMYHGWVPDLHIH AEDTLLPFYLGEKDDVTYAIKP TCWPGLDIIPSCALHRIETELM GKFDEAQP NLGIGTINVVCAAD VLIVPTPAELFDYTSALQFFDM LRDLLKNVDLKGFE PDVRILLT KYSNSNGSQSPWMEEQIRDAW GSMVLKNVVRETDEVGKGQIR MRTVFEQAIDQRSSTDTSLSSTP AAPMVDSL IARVGV MARGNAI TLPVCGRDVKFTLEVLRGDSVE KTSRVWSGNERDQELLTEDAL DDLIPSFLTGGQTPAFGR RVSG VIEIADGSRRRKAAAALTESDYR VLVGELDDEQMAALSRLGNDY RPTSAYERGQRYASRLQNEFAG KYFLRWLMRKIFHIITRCINTAK LPKSVVALF SHPGELSARS GDA LQKAFTDKEELLKQQASNLHE QKKAGVIFEAEVITLLTSVLKT SSASRTSLSSRHQFAPGATVLY KGDKMVLNLD RSRVPTECIEKI EAILKELEKPAP
24589	54957	A	24727	1	1623	
24590	54958	A	24728	1	1863	
24591	54959	A	24729	1	2622	
24592	54960	A	24730	1	1338	

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24593	54961	A	24731	1	1823	MNMNIKKIVKQATVLTFTTALL AGGATQAFAKENNQKAYKET GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDN SIDSWKNAGR VFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTDYSGKH YGKQS LTTAQVN VSKSDDTLKINGVED HKTIFDGDCKTYQNVQQFIDEG NYTSGDNHTLRDPHYVEDKGH KYL VFEANTGTENG YQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGHIELNND YTLKKVMKPLITSNTVFIRDKL MERRNRRTGRTEKARIWEVTD RTVRTWIGEAVAAAAADGVTF SVPVTPHTFRHSYAMHMLYAG IPLKVLQSLMGHKSISSTE VYTK VFALDVAARHRC DN LKTCHTS HGSVMAETA VINHKKRKNSPRI VQSN DLTEAA YSLSRDQKRML YLFVDQIRKSDGTLQEHDGICEI HVAKYAEIFGLTSAEASKDIRQ ALKSFAGKEVV FYRPE/VGCRR *KRL*IFSLVYQTCAQSIQRALQ CTYQPISHSLLYRVTEPVYAVS
24594	54962	A	24732	1476	2221	

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24595	54963	A	24733	1	815	MRVGRKAVGAIWWSSKQELFQ QLFLRTELEDIGPGIVKRELGRE GSKDTGSSDDWEQLPDWKTGR VGNERDQELLIEDALDDLIPSFL LTGQQTPAFGRRVSGVIEIADG SRRRKAAALTESDYRVLVGEL DDEQMAALSRLGNDYRPTSAY ERGQRYASRLQNEFAGNISALA DAENISRKIIITRCINTAKLPKSV VALFSHPGELSARSGDALQKAF TDKEELLKQQASNLHEQKKAG VIFEAEVITLLTSVLKTVQSKN LSHFTWICHAETAVINHKKRKN SPRIVQSNLDEAAAYSLSRDQK RMLYLFVDQIRKSDGTLQEH GICEIHVAKYAEIFGLTSAEASK DIRQALKSFAGKEVVFYRPEED AGDEKGYESFPWFIKHWVTISP QTSAYERGQRYASRCKNEFAG NISALADAENISRKIIITRCINTAK LPKSVVALFSHPGELSARSGDA LQKAFTDKEELLKQQASNLHE QKKAGVIFEAEVITLLTSVLKT SSASRTSLSSRHQFAPGATVLY KGDKMVLNLDERSRVPTECKRK LRPF*SGQRTDTAYVFDPRDY

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24596	54964	A	24734	2	1249	DFADFGTTIKQDFRLLGQTSVD RLLQLSQGQAVKGNQLLPVSL VKRKTTLAPNTQTASPRALADS LMQLARQVSRLESGQLAISGRI LFLPMLNSINKLAAPSQPCTEPF FRRDPTLHPKSEVRLPPKVTIT VISNPILITPQEKSV AQCTYNQT VQLDITAFLLKTVKKNKHKFYPA FIHILARLMNAHPEFRMAMKD GELVIWDSVHPCYTVFHEQTET FSSLWSEYHDDFRQFLHIYSQD VACYGENLAYFPKGFIENMFFV SANPWVSFTSFDLNVANMDNF FAPVFTMGKYYTQGDKVL MPL AIQIRKSDGTLQEHDGICEIHVA KYAEIFGLTSAEASKDIRQALKS FAGKEVVFYRPEEDAGDEKGY ESFPWFIKRAHSPSRGLYSVHIN PYLIPFFIGLQNRFTQFRLSETKE ITNPYAMRLYESLCQYRKPDGS GIVSLPIDWIIERYQLPQSYQRM PDFRRRFLQVCVNEINSRTPMR LSYIEKKKGRQTTHIIRISDGL QEHDGICEIHVAKYAEIFGLTSA EASKDIRQALKSFAGKEVVFYR PEEDAGDERGYESFPWFIKRAH SPSRGLYSVHINPYLIPFFIGLQ RFTQFRLSETKEITNPYAMRLY ESLCQYHLCGTLRNSRFCEIHV AKYAEIFGLTSAEASKDIRQAL KSFAGKEVVFYRPE/VGCRR*K RL*IFSLVYQTCAQSIQRALQCT

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24597	54965	A	24735	1	2286	MLTLILLDLQFMAQLAGYQMS FNSTKSKQTKNNFAVGYRTGD FQLHTNVNDGAIEFGGSVYQKV CEELDALINLAWSSTSCTRFG LAAKFQLKPIAFISTKVNHWLT GVSYPPEAGVKLNLSALCDN LKTCHTSHGSVMAETAVINHK KRKNSPRIVQSNDLTEAAYSLS RDQKRMLYLFVDQIRKSDGTL QEHDGICEIHVAKYAEIFGLTSA EASKDIRQALKSFAGKEVVFYR PEEDAGDEKGYESFPWFIKRAH SPSRGLYSVHINPYLIPFFIGLQN RFTQFRLSETKEITNPYAMRLY EIPVVSIRKPGMSGIVSLKIDW IIERYQLPQSYQRMPDFRRRFLQ CINAGHEMTKAIAIAQFNDDSP EARKITRRWRIGEAADLLGVSS QAIRDAEKAGPLPHPDMENRG RVEQRGGYTIEPNNHMRDGVG TRWRAEDVF\PLIG\VAGHKG GR\YKTSVSVHLAQDLALKGLR VLLVEGNDPQGTASMYHGWW PDLHIHAEDTLLPFYLGEKDDV TYAIKPTCWPGLDIIPSCALHR IETELMGKFDEGKLPTDPHLML RLAIETVAHDYDVVIDSAPNL GIGTINVCAADVLIPTPAELF DYTSALQFFDMLPDLVKNRDL KGVEPDVFIRDKLMERRNRRT GRTEKARIWEVTDRTVRTWIGE AVAAAAADGVTFSPVTPHTF

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24598	54966	A	24736	1	1400	MDAKMHSGGTAPPGTLSQRQP SSNSKTNGSKLNPLKDTLLSTPS CPEGELVNAARRSNGSGNAITL PVWGRDVKFTLEVLRGDSVEK TSRVWSGNERDQELLTEDALD DLIPSFLTGTQQTAFGRRVSGV IEIADGSRRRKAALTESDYRV LVGELDDEQMAALSRLGNDYR PTSAYERGQRYASRLQNEFAG NISALADAENISRKIITRCINTAK LPKSVVALFSPHGELSARSGDA LQKAFTDKEELLKQQASNLHE QKKAGCDNLKTCHTSHGSVMA ETAVINHKKRKNSPRIVQSNDL TEAAYSLSRDQKRMLYLFVDQI RKSDGTLQEHDGICEIHVAKYA EIFGLTSAEASKDIRQALKSFAG KEVVFYRPEEDAGDEKSYEQPS KDIRQALKSFAGKEVVFYRPE/ VGCRR*KRL*IFSLVYQTCAQSI QRALQCTYQPISHSLLYRVTEP
24599	54967	A	24737	1	1628	MLHITNDQGNASQNHNAMPPY SCKNGHNLKTVDGGMADVNG EHFYTAGLSQGPKGSFLFFNI LILVCPPIFRVSGNEVFIRDKLM ERRNRRTGRTEKARIWEVTDRT VRTWIGEAVAPLLLTCDNLKTC HTSHGSVMAETAVINHKKRKF SPRIVQSNDLTEAAYSLSRDQK RMLYLFVDQIRKSDGTLQEHD GICEIHVAKYAEIFGLTSAEASK DIRQALKSFAGKEVVFYRPEED AGDEKGYESFPWFIKRAHSPSR GLYSVHINPYLIPFFIGLQNRFT QFRLSETKEITNPYAMRLYESL CQYRKPDGSGIVSLKIDWIIERY QLPQSYQRMPDFRRRLQVCV NEINSRTPMRLSYIEKKKGRQT THICDNLKTCHTSHGSVMAETA VINHKKRKNSPRIVQSNDLTEA AYSLSRDQKRMLYLFVDQIRKS DGTLEHDGICEIHVAKYAEIF GLTSAEASKDIRQALKSFAGKE VVFYRPE/VGCRR*KRL*IFSLV YQTCAQSIQRALQCTYQPISHSL LYRVTEPVYTISAY

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24600	54968	A	24738	1295	1675	SVTSCLKVTSVCLTSGRRFLQIR ISDGTLQEHDGICEIHVAKYAEI FGLTSAEASKDIRQALKSFAGK EVVFYRPEEDAGDEKGYESFP WFIKRAHSPSRGLYSVHINPYLI PFFIGLQNRFTQFRLSETKEITNP YAMRLYESLCQYRKPDGSGIVS LKIAWVIERYQLPQSYQRMPDF RRRFLQVSDFLMAPYRNIDGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPEEDAG DEKGYESFPWFIKRAHSPSRGL YSVHINPYLIPFFIGLQNRFTQFR LSETKEITNPYAMRLYESLCQY RKPDGSGIVSLKIDWIIERYQLP QSYQRMPDFRRRFLQVCVNEIN SRTPMRLSYIEKKKGRQTTHE HDGICEIHVAKYAEIFGLTSAEA SKDIRQALKSFAGKEVVFYRPE EDAGDERGYESFPWFIKRAHSP SRGLYSVHINPYLIPFFIGLQNR TQFRLSETKEITNPYAMRLYQS LCQYRKPDGSGIVSLKIDWIER YQLPQSYQRMPDFRRRFLQIRK SDGTLEHDGICEIHVAKYAEIF GLTSAEASKDIRQALKSFAGKE VVFYRPEEDAGDEEGYESFPWF IKRAHSPSRGLYSVHINPYLIPFF IGLQNRFTQFRLSETKEITNPYA MRLYESLCQYRKPDGSCIVSLK IDWIIERYQLPPRYQRMPDFRRR FLRVWVQEINSRTPMPPLLPWE
24601	54969	A	24739	1	1986	

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24602	54970	A	24740	1	398	MVDSLIRVGV MARGNAITLP VCGRDVKFTLQVLRGDSVEKT SRVPPGNERDQEMLTEDALDD LIPSFLTGTGQTPAFGRRVSGVI HTADGSRRRKAAALTEKFCIVD NPPGEIRKRACLFIPHTALNLR FEDICYAHQLPDGGLLSARVGV MARGNPILSPVCGRNVKFTLKV LRGDSVENPSRVWSGNERAQE LLEHALDDLTLSTLLTGQQT AFGRRVSGVIEIADGSRRRKAA ALTESDYRVLVGELDDQMAA LSRLGNDYRPTSPYERGQRYAS RLQNEFAGNISALADAENISRKI ITRCINTAKLPKSVVALFSHPGE LSARSGNERDQELLTEDALDDL IPSFLTGTGQTPAFGRRVSGVIH TADGSRRRKAA/DTYRKILYR** PPGGD*KKSVPFYSNTCAQSQP
24603	54971	A	24741	1450	3699	RNPLQIPKQQQNEKYQVPQFDQ STIKNIESAKGLDVWDSWPLQN ADGTVAEYNGYHVVFALAGSP KDADDTSIYMFYQKVGDNIDS WKNAGR VFKDSKFDANDPIL KDQTQEWSGSATFTSDGKIRLF YTDYSGKHYGKQSLTTAQIFQ MITVFITSLCNTTSSHICLHISWV TTMHGAMPHPGHIPTAPASLPA KVKGSGKVCWLAFLSELTPPS ALQVNVSKSDDTLKINGVEDH KTIFDGDGKTYQNVQHFIDEGN YTCGDNHTLRDPHYVEDKGHK YLVFEANTGTENGYQGEESLFN KAYYGGGTNFFRKESQKLQQS AKKRDAELANGALGIIELNNDY TLKKVMKPLITSNTVTDEIERA NVFKMNGKWYLF TDSRGSKM TIDVPQAKSTNVVITSYMTNRG FFEPEGSGKSITA AVMAKGLSV ASGNSTPERRRATANENVQPR IRDAEKAGRLPHPDMEIRGRVE QRVGYTIEQINHM RDVFGTRLR RAEDVFPPVIGVAAHKGGVYK TSVSVHLAQDLALKGLRVLLV EGNDPQGTASMYHGWVPDLHI HAEDTLLPFYLGEKDDVTYAIK PTCWPGLDIIPSCALHRIETEL MRKFDEGNLPTDPLMLRLAIE TVAHDYDVIVIDSAPNLGIGTIN VVCAADV LIVPTPAEQLDISS RQFFDILRDLLKNVDLKGFE PD

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24604	54972	A	24742	1	3899	MVDSLIAPVGV MARGNAITLPV RATNVKFTLEELRGDSVEKTSR VWSEKKDRGGQEA EVSGEGSS QTKSLQKRQHSNGSDFTARGF HTGQALVRSKGTYNPTGLGL SHGTEDPNLIGEELDAGEWDK NTRKELAVLNVRDFADFGTTI KQDFRLLGQTSVDRLLQLSQG QAVKGNQLLPVSLV KRKTTLA PNTQTASPRALADSLMQLARQ VSRLESGQFWVFEGGLRVLVR ERVTPPKGTASMYQG WVPD
24605	54973	A	24743	268	2617	RMFRMKLMETLASQCINAGHE MTKAIAIAQFNDDSP EARKITR RWRIGEAADLVGVSSQAIRDAE KAGRLPHPDMEISGRVKHGVG YTIEQIYLTRDVF GTRL PRAED\ VFPPVIGVAAHKGGVYKTSVSV HLAQDLALKGLRVLLVEGNDP QGTASMYHGWV PDLHIHAEDT LLPFYLGEKDDVTYAIKPTCWP GLDIIPSCALHRIETELMGKFD EGKLPTDPHMLRLAIETVAHD YDVVIDSAPNLGIGTINVVCAA DVLIVPTPAELFDYTSALQFFD MLRDLLKTVDLKGFPDVRILL TKYSNSNGSQSPWMEEQIRDA WGSMLKKNVVRETDEVGKGQI RMRTVFEQAIDQRSSTDTSLSTP AAPMVDSLIARVGV MARGNAI TLPVCGRDVKFTLEVLRGDSVE KTSRVWSGNERDQELLTEDAL DDLIPSFLTGGQTPAFGR RVSG VIEIADGSRRRKAAALTESDYR VLVGELDDEQMAALSRLGNDY RPTSAYERGQRYASRLQNEFAG NISALADAENISRKIITRCINTAK LPKSVALFSPHGELSARSGDA LQKAFTDKEELLKQQASN LHE QKKAGVIFEAEVITLLTSVLKT SSASRTSLSSRHQFAPGATVLY KGDKMALNLD RSRVPAYIIRSY IRCGRKGFA SAGVGGCRGWL N YAASEQIVLRVHHMRCEIPHRC

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24606	54974	A	24744	1	2624	MTPQKRGYLCKAGARNLDVLL EGCEIFLLIPMGMRSESGVSDA DTVSA PRKKHSLEQGIFRAQVE ASKPSSVPACIVVGNVSGYQFP PGTSYGP DSESELGYREKFMSF VGT MNEAGNPPFSANYSKAKK PKPRMFSLIERMSPSPRVGSQSV QSSCFRDIPFEQDQMFPHPSLVL RSKEQQPLLTQSIGVNSARKAM AKRRRRHRRRRRVSGVLP IAVG VPS*SVHLPKVLSCSGASWI*QS CISRLGRLSPTRL MNVAIGNDP QGTASMYHGWVQILHIHAEDT LL/PFY/LGEKDDVTYAIKPTCW PGLDIIP SCLALHRIETELMGKF DEGKLPTD PHLMRLAIETVAH DYDVIVID SAPNLGIGTINVVCA ADVLIVPTAELFDYTSALQFFD MLRDLLKNVDLKGFE PDVRILL TKYSNSNGSQSPWMEEQIRDA WAS MV*KINNVRNANEVGKDT LKG FYSLKERPLGNHFLGPNNR PFGKIMKHKTPAFGRRVSGVIEI ADGSRRRKAAALTESDYRVLV GELDDEQMAALSRLGNDYRPT SAYERGQRYASRLQNEFAGNIS ALADAENISRKIITRCINTAKLP KSVVALFSHPGELSARSGDALQ KAFTDKEELLKQQASNLHEQK KAGGF CRFRNHHQTGFSPAGA NQRGPLAATLSGPGGEGQSAV ARLTGEKKNHPGAQYANRLSP
24607	54975	A	24745	1	385	MWQAISRLLEQLGEGEIELRN ELPGGEVHAAWHLRYAGHDFE VKCDERELLP GFTA EADQLELL SRSKTVTVPK\AFILGQQIARLH QWSDHAVLKIVTTGVL*GAYV GAPSIWKCPERITLPGYHQ
24608	54976	A	24746	1	1209	

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24609	54977	A	24747	1	857	MHACRSELLGEGEIELRNELPG GEVHAAWHLRYAGHDFFVKC DERELLPGFTAADQLELLSRS KTVNRALKVWAIVGADRELT FLVMDYLPFRPLDAHSAFILGQ QIARLHQWSDQPQFGLDFDNA LSTTPQPNTWQRRWSTFFAEQR IGWQLELAAEKGIAFGNIDAIVE HIQQLASHQPQPSLLHGDLWS GNCALGPDGPYIFDPACYWGD RECDLAMLPLHTEQPPQIYDGY QSVSPLPADFLERQPVYQLYTL LNRARLFGGQHLVIAQQSLDRL
24610	54978	A	24748	1	2094	
24611	54979	A	24749	1	1209	MVREDLYTYYSCNTSREQQQL ENPMESPLCSKEINQGGVFMLA GKASDTLLAGGTMMNLGGEDS DTIVENGSIYRLGTDGLQLYSS GKTQNLSVNVGGRAEVHAGTL ENAVIQGGTVILLSPTSADENFV VEEDRAPVELTGSAVLLDGAS MIIGYGAEQQSTITVQQGAPP VKLRFALYGRPGFTKCGWMLG YKPAHDKTLLRITRGHDFACYQ RTTQLARQRLKVCSSLIVGLP GEGQAECLQTLERVVETGVDGI KLHPLHIVKGSIMAKAWEAGR LNGIELEDYTLTAGEMIRHTPPE VIYHRISASARRPTLLAPLWCE NRWTGMVELDRYLNEHGVQG SALGRPWLPTENSLMKQIRLL AQYYVDLMMKLGLVRFSMLL A\WPSSFLPLWYKWR
24612	54980	A	24750	200	310	
24613	54981	A	24751	1	4398	MCIPVPPIATGDRHFIAVAHIHQ NSRRSPVDSDESSTRSAVAHP ATRDFNVRLYTVTSSVSPTKP PLPATFRQGRYRPAEPCVGSIG VIPQSSCVLANGSTGAQSAFGDI IRAGPPSAGLVPAQATVIETFL RYQTINERDFWAARNRLKQP YGSRI LRFT EAY AIAERAAQSV LRISLADAFNVDGPRPAEDSIFR LLRMPGSAVQRPD RRHNRRCQ YRPAMAFPA GSKANKQRQYNG GRQFYRKRICWL

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24614	54982	A	24752	939	2169	RPASPPARDGARWSTGLHSSYS AMRCRNASTCAEDSQLS/DPLA R/PSVASGPYRVTSWKLQGNIV YCRVKDYWPATLTVNRGRWN FDTIRSDYYLDDNVAFEAFKAG AFDLRMENDAK\NWATRYT/G DRRVREAITLAFDFEWMNKAL FYNAWSRTNSYFQNTHEYAARN SPPPPPEL\VLLPPIKKVLPSEVFP QIYQPPVSKGDGYDRDNLKA DKLLNEAGWVLKGQQRVNAT TGQPLSFELLLPASSNSQWVLPF QHSLQRLGINMDIRKVDNSQIT NRMRSRDYDMMPRVWRAMP WPSSDLQISWSSEYINSTYNAP GVQSPVIDSLINQIIAAQGNKEK FLPLGRALDRVLTWNYMLPM WYMAEDRLAWWDKFSQPAVR PIYSLGIDTWWDVKNKTAKLPS ASKQGE
24615	54983	A	24753	3	450	
24616	54984	A	24754	2	203	PLPDAARYLRRQCQKPARVHDI FAAMHTAHRSRPDRPSLPDDAF SSLRL*FFQPEHYPRQYQHRHL CS*ERYQHQAISRTFRSG*PTP SVPETSTGSRYFCGNAHSAPKP PRPPITTGRRVFFTTPLILPTRAL PASISTPASL
24617	54985	A	24755	1016	1219	
24618	54986	A	24756	1695	2021	PDTFSMLPATRFLPPLQFPDLQH PEAAQYAHWLPASGCFLLPPP GSGTVFLLPYSPRLCRSTSETP LPAITR*HFPVTDRVQK*ITRRR KPRHKPFYPDDLQRDAR
24619	54987	A	24757	1671	1911	
24620	54988	A	24758	513	1104	CWRNCARCERNLVFRCQYGIY WCDNAANRSCRTKRDQPRLVE W*KSACSHHR*LHPCGHCRQF MNELNSGLDLRIHLPGREAHAL RDYLPDAFGPKDLEIKTLLMDE QDHGYALTGDALSQAAIAAAN RSHMPYSKSPSGVALECKDGRN LVAATLKTPH/INPTQICGQPWS MHRRALTSKFGAHGDRRTSAG FRRN
24621	54989	A	24759	131	759	
24622	54990	A	24760	662	889	LPIKCRAARGVPARCLRWTRW ALRRILPPLRNRRAASRWAS PGARK*WMPSLQAVWAAPMR VTRLPAWLRWKC

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24623	54991	A	24761	1	1518	MQRRDGDIALIYRSKIGPRTSIT FTARRANPVQRIAARILLRDHLI CRMSTAAARHANTFDLIQSG ADNFAAIYGGANDRITRADA VAGAGNWHRFGISNGKLSPRSI TRTSSPARAMTKMPYNPQASG GSNLAVSNPELDKLIARVAAL RAANPDASASVPVELVTASASY PRSLMRCNRILSPGSARGQMIIT ALFIYAGNPIACVAALVVKVF EQENLLQKANDLGQKLKDGLL AISFWRAKWLKIFVVCGAEIFV EYVLKNKVIWLLCFANIFLYVV RIGIDQWSTVYAFQELKLSKAV AIQGFTLFEAGALVGTLLWGW LSDLANGRRGLVACIALALIIAT LVIPFHMVFHPNEQYAYCVNEL NSSVDVWELKDPHGNIIECVQT LDMMPENFS DTRWAADIHITPD GR\HLYACDRTASLITVFSVSED GSVLSKEGFQPTETQPRGFNVD HSGKYLIAAGQKSHHISVYEIV GEQGLLHEKGRYAVGQGPIMW
24624	54992	A	24762	3	486	ACRRALKD\AGVEADEVLEV MVGGSTRVPLVRERVGEFFGR PLTSIDPKVVAIGAAIQADILV GNKPDSEMLLLDVIPLSLGLET MGGLVEKVIPRNTTIPVARAQD FTTFKDGQTAMSAGGAHIRVTF QVDADGLLSVTAMEKSTGVEA SIQVKPSYG
24625	54993	B	24763	1	2469	
24626	54994	A	24764	1255	1761	ESFQVRTHGTGEPVNKTRTSQA VSHHNQSCQVDQCVCAVIAG NVFPRHNVQGQH*RNCQQTNR SSINDFTKLSNTRPISVHSLGIKQ SRPDRHAKASPVVTAVKACEQ VIAAVNQIADHDHPDRTKQRN AIVVADDLPDLFPVHFFGVHDQ QHNHRDKKQPGEDLLCC
24627	54995	A	24765	1	3141	
24628	54996	B	24766	1	3969	

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24629	54997	A	24767	643	2082	GAHAMDKHFSTTPAEKNLPVL LALIGIWYNNFFDKNDALVMV DDFPRRSGLSWKIVVVPHEYW VGGSTRVPLVRERVGEFFGRPP LTSIDPDKVVAIGAAIQADILVG NKPDSMLLLDVIPLSLGLETM GGLVEKVIPRNTTIPVARAQDF TTFKDGQTAMSIHVMQGEREL VQDCRSLARFA\CVVFRRYRL/A GAHIRVTFQVDADGLLSVTAM EKSTGVEASIQVKPSYGLTDSEI ASMIKDSMSYAEQDVKARMLA EQKPGQQEAKLALKTFHWQQA IADKRVIGAGITGVTAGTDHRA DVTEVASDFRVQTTNADSALF HVRSAQQHIHQLLHFTTHLLCQ LAGLDHVVFQQIATNPADQVQ AVGFTRTGKDLCHFHHGGFTHA EELHKAGVEAGKVTGQAKVEQ MRVQAFYLQQNGADHLRTFW HLNTHRVFHRRGVGGAVGKA ADPAHTVREEGHFVITHTGFRQ FFHAAMDVEQ
24630	54998	A	24768	1	502	

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24631	54999	A	24769	1	2345	MFMIGALVLAIVMTLITFMVL RRIVIRPLQHAAQRIEKIASGDL TMNDEPAGRNEIGRLSRHLQQ MQHSLGMTVGTVRQGAEEIYR GTSEISAGNADLSSRTEEQAAAI EQTAASMEQLTATVKQNADNA HHASKLAQEASIKASEGGQTVN GVVKTMGAMSTSSKKISEITGR HQQGIRTPVTAVKGRCPGPLDE GDTDTAYYALRDIFALTPNRKR LAIPVSTDNPGKPKCKDPSLSKD VSNRVPQRPVPCYDSPRSSSVNG NRLPGKDFHDDERSMGRSGSY VLALAYPPKIALSDADSVTNV AGWQGEISREQFNELIAPLVKR TLLACRRALKDAGVEADEVLE VVMVGGSTRVPLVRERVGEFF GRPPLTSIDPDKVVAIGAAIQAD ILVGKPKDSEMLLLDVIPLSLGL ETMGGGLVEKVIPRNTTIPVARA QDFTTFKDGQTAMSIHVMQGE RELVQDCRSLARFACVVFRYYR LAGPVDLFLRPWEVDISRRTSL DSPLPVQVLEASPKGHYTLVV QPLGWYNEPLTVVMHGDDAP QRGERLFVGLQHARLYNGDER ASRDPGFLMARFVTCRDPKTRK LRIRQHHVWIEIVSTLEQTIGNT PLVKLQRMGPDNGSEVWLKLE GNNPAGSVKDRAALSMIVEAE KRGEIKPGDVLIEATSGNTGIAL AMIAALKSYRMKLLMPDNMSQ
24632	55000	A	24770	313	676	DCQPRSSAFTKPDATTAGHYLA GSGGRMTQLAIGKPASLGAHLE REGGENFTFFSLNADGEKL/CVF DANGQ/EHRYDLPGHSGDIWH/ G/YLPDARPALRMVSRH/GP/WQ PAGGMLTPAVVMILPRK
24633	55001	A	24771	1760	2053	FRVHGKNAFSH*IKPAAMLLPS SPVTRSVKPTQCGSAPSKRPNL TLLPSITLMPPLPVTDLKLGCIA PCSSDCFSFITFSISCATRLSVNW LPAAGQ
24634	55002	A	24772	296	732	
24635	55003	A	24773	606	695	
24636	55004	A	24774	1520	1737	PVHGLCGTRRDAGSPAIPPFHS LML/RFWLR/TCTVPGWPLDDS SLAGEAFSAFTTDAAVWSLISA TAMLAVQAG
24637	55005	A	24775	1	1049	

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24638	55006	A	24776	248	933	RTTMRAVSRPKYCSRERWL/HY DFTVARFDENASCGTFAATSAV VLIFSHCLRLLCRVVVLVTRVN FQFTEHSTTQRAFWQHAFNRDF NHTLRTASNHLFKGRLFDTTDDV AGVVIVHFVSTLVAGYSNFVSV QNDDVITGIYVRSVFRFVLTAQ ATSQFSSQTAQSFTGRVNNIPV AFYGFWFSCAKYYRHGARWCS NGRKIDQRHTHCFFCPCIRTDFA VEIGKEEFIT
24639	55007	A	24777	219	3441	DCQPRSSAFTKPDATTAGHYLA GHSGLDIWHGYLPDARPGRLRYG YRVHGPWQPAEGHRFNPAKLL IDPCARQIDGEFKDNPLLHAGH NEPDYRDNAAIAPKCVVVVDH YDWEDDAPRTPWGSTIIYEAH VKGLTYLHPEIPVEIRGTYKAL GHPVMINYLKQLGITALELLPV AQFASEPRLQRMGLSNYWGYN PVAMFALHPAYACSPETALDEF RDAIKALHKAGIEVILDIVLNHS AELDLGGLFSLRGI
24640	55008	A	24778	454	586	
24641	55009	B	24779	130	1557	
24642	55010	B	24780	92	2808	
24643	55011	A	24781	2	1051	WRLRPITPLWRWQKIFFPDA/R YGIRFRNLETGNWYPELLDNVE PSFVWANDSWIFYVVRKHPIFI DLTTEELAASSYHESWVLEDRII KDGSYNIDQGVGVRAISGEKTG FAYADQISLLALEQSAQAARTI VRDSGDGKVQTLGAVEHSPLY TSGRSGWQSMSREEKLDILRRV DKVAREADKRVQEV TASLSGV YELILVAATDGT LAADVRLPGK VLLVGQSPNAELSARAKQIAM GVDGANEVYNEIRQQQPIGLGE ASNDTWITTKVRSQLLTSDLVK SSNVKVTTENGEVFLMGLVTE REAKAAADIASRVSGVKRVNR TLFLGYAVMFSELILAPVTPSNS
24644	55012	B	24782	1	2079	

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24645	55013	A	24783	1	3214	MGAEKQLIPDGCGVSYIPSSGP LDKWRALLFIQPDYRADPVYR QIITITDLRILYDYTENFVPLSH DEVVHGKKSILDRMPGDAWQK FANLRAYYGWMWAFPGKKLL FMGNEFAQGREWNHDASLDW HLEGGDNWHHGVQRLVRDL NLTYRHHKAMHELD FDPYGFE WL VVDDKERSVLIFVRRDKEG NEIIVASNFTPVPRHDYRFGINQ PGKWREILNTDSMHYHGSNAG NGGTVHSDEIASHGRQHSLSL
24646	55014	A	24784	1	1079	MKQIKELQRLLGKKTWKMNSS KKPLNMDGPKVDSARALIGRG WGTHKFYRCDCIKPTIKTNTSS RGNEKNPDGSHNNIHNSWFRL LTSQNMCKVPESPAILVDVGQS AETVQSVLTVKVEHPILRIAVA GYACQRQSCLLAMRHPQYAIN SSKVVKPCSTARQPFQKAYAYP PVVRAFPAINVGISGNKLTNDR RYGRTSNKAWGS GDGHTLSEC GWAPLAAGDNVGKVS YQTLG YYQRILGYIFYPIAW/VMGVPSS EALQVGSIMA/TKLVSNEFVAM MDLQK/IAS TLSPRAEGIISVFL/ VSFANFSSIGIIAAAACRDWFG ILAAQTLAVRAALRVVQAERD CVLSMEQHQ CARGRQR
24647	55015	A	24785	121	258	LTEPRHYCRS IQFFGLTNMGQN CYQLS*E*FIGTLNHIRIPQPLS
24648	55016	A	24786	1	470	WGS GDGHTLSECGWAPLAAG DNVGKVS YQTLGYYQRILGYIF YPIAW/VMGVPSEALQVGSIM A/TKLVSNEFVAMMDLQK/IAS TLSPRAEGIISVFL/VSFANFSSIG IIAAAACRDWFGILAAQTLAV RAALRVVQAERDCVLSMEQHQC CARGRQR
24649	55017	A	24787	1324	1539	GWCGCEVPFKITDGLACLLQSP QGHQTFCFT*HNLGLQPFWIPM CLCSVNVFKTRLILTQVEEGCR AVSMTQ
24650	55018	A	24788	71	403	RTTFIFDLSSGWPFILWQVLSPN *RCLQVGLFAQIPTGRMGCLHR FLTCRMGVCTDSSPAGWAVTLI RMSPIFPASSKSTLSAALLNTSC LHSRDLEPPGAFRSGGPVLL

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24651	55019	A	24789	309	1653	SVLMDESDIYRNNRERFFCVFL LVGV PARGACLG GGGGCGLCV RYLRSAGWGCRRFPCVGDN WSAILAHIGKPEELDT SARNAG ALTRRREIRDAATLLRLGLAYG PGGMSLREVTAWAQLHDVATL SDVALLKRLPKCRHWFILAG QTLAHIRVLPVIIRAIGFLLSKV NGMGKLESFNAVSSILGQSEN FIAYKDILGKISRNRMYTMAAT AMSTVSMSIVGAYMTMLEPKY VVAALVLNMFSTFIVLSLINPYR VDASEENIQMSNLFEGQSFFEM LGEYILAGFKVAIIVAAMLIGFI ALIAALNALFATVTGWFGYSIS FQGILGYIFYPIAWVMGVPSSE ALQVGSIMATKLV SNEFVAMM DLQKIASTLSPCAEGII SVLLDSF ANFSSIGIIARAVKGLNEEQGNE GSRFGLKLVYRSTLVSVLSASI AALVLS DHT
24652	55020	A	24790	754	957	
24653	55021	B	24791	75	3707	
24654	55022	B	24792	75	264	
24655	55023	B	24793	344	461	
24656	55024	A	24794	1	2203	
24657	55025	A	24795	20	198	
24658	55026	A	24796	1239	1409	RGPPTFFH VWEWQQRPLSVW EADHV*RRDEGACPRMVARAR NCRPKLLELRAESQ
24659	55027	A	24797	1325	1564	
24660	55028	A	24798	323	694	TGYARQKVPALGWWTNVSAS TAPPIILPSITGSRLAVIKWLTVS AGKLSALLCASCQKGGGAKWR MAMANGITNKLA IQCSPPHSTI EKFTSQSQHVLA*GVSAVRSM VSSG*GRRPLPALG
24661	55029	A	24799	4708	4878	
24662	55030	A	24800	20	199	
24663	55031	A	24801	743	1186	

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24664	55032	A	24802	1394	2651	KLMTCRHEGSLGDDPGINGQL WDVNRIDVTAHEGTWERWTV RADEPQAFHIEGVMFQIRNVNG AMPFPEDRGWKDTVWVDGQV ELLVYFGQPSWAHFPHYFNSQT LFSWPQYWAACFGPAPFLPMS REEMDQLGWDSCDIILVTGDA YVDHPSFGMAICGRMLEAQGF RVGIIAQPDWSSKDDFMRLGKP NLFFGVTAGNMDSMINRYTAD RRLRHDDAYTPDNVAGKRPDR ATLVYTQRCKEAWKDVPVILG GIEASLRRTAHYDYWSDTVRRS VLVDSKADMLMFGNGERPLVE VAHRLAMGEPISEIRDVRNTAI VKEALPGWSGVDSTRLDTPGKI DPIPHPYGEDLPCADNKPVAPK KQEAKAVTVQPPRPKPWEKTY VLLPSFEKVKGDKVLYAHASRI LHHETNPVAVPAH

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24665	55033	A	24803	1	2126	MQEKQVLAAYVQPSSEGQSRS RRARRVSQCHQHSAAAASLAR TAASATADSAHPPCPRSAARAG ATMHVKKYLLKGLHRLQKGP YTYKELLVWYCDNTNTHGPKR IICEGPKKKAMWFLTLTLLFAAL VCWQWGIFIRTYLSWEVSLS VGFKTMDPFAVTICNASPFKYS KIKHLLKDLDELMEAVLERILA PELSHANATRNLFSIVNPTPL VLIDERNPHHPMVLDFLGDNH NGLTSSASEKICNAHGCKMA MRLCSLNRTQCTFRNFTSATQA LTEWYILQATNIFAQVPQQELV EMSYPGEQMILACLFGAEP CNYRNFTSIFYPHYGNCYIFN WGMEKALPSANPGTEFGLKL ILDIGQEDYVPFLASTAGVRL MLHEQRSYPFIRDEGIYPMS GTETSIGVLVDKLQRMGEPY SPCTVNGSEVPVQNFYSDYNT TYSIQACLRSCFQDHMIRNC NCGHYLYPLPRGEKYCNNRDF PDWAHCYSDLQMSVAQRETCI GMCKESCNDTQYKMTISMADW PSEASEDWIFHVLSQERDQST NITLSRKGIVKLNIFFQEFNY RTIEESAANNIVWLLSNLGGQ FGFWMGGSVLCIEFG EIIIDFVWITIILKVALAKSL RQRRAQASYAGPPPTVAELV EAHTNFGFQPDATAPRSPNIG PYPGEQALPNPG/TPAPPNYD SWRLQPL
24666	55034	A	24804	905	1051	
24667	55035	A	24805	1	1257	
24668	55036	A	24806	1	3116	MPHITLPDGSQRSFDHPVSV AEVAQSIGAGLAKATLAGKVD GRLIITPKDEEGLEIIRHSCA HLVGHAVKQLYPTAKMVIGPV IEEGFYDIFFERPFTPEDMAA IQQRMRELIDKDYDVIKKMT PRAEVIELFKLQAAPDRRHAG REGHGLYFHEEYVDMCRGPH VPNTRFLKAFQLTKISGAYWR GDSKNEQLQRIYGTAWADKKQ LAAYIQRIEEAEKRDHRRIGK QLDLFHLQEEAPGMVFWHPN GWSVYQ
24669	55037	A	24807	1924	2790	
24670	55038	A	24808	1	1185	

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24671	55039	A	24809	823	5990	MARPVPLWSSWGLRTSYLPKP LSVNPSRNDGSA/FAGTHPLGV TRGTLAGPAFVRLSLVFLRRV LAGSSLLPLLMG*QK/PEVLLPD GASEHDYSLRPSDVKRLQNAD LVVWVGPEMEAFMQETGKQIT RSEVSPLCRRVAFNKFNRDPQP RYDWGRLTVLYSGSSLSGGRY VVIIECHCQLSKPLRLEQNEIR SLLPEASEPIDQAAQEDEAIPQD ELDDKIAGEAGVHEYVVSTGD TLSSILNQYGIDMGD
24672	55040	A	24810	2305	2550	
24673	55041	A	24811	665	844	ISFNNEVISYRLSGKNQ*LNLG* EIWLESGAFKKALSPQKHPGLE PSVCTPTPTLVPDR
24674	55042	A	24812	1	2031	
24675	55043	A	24813	106	912	HFETVIDQRDFHPVFSHKGIRAT PEGNEEKGQRVADVTEQCGRC RCQPPAATLTQAVKNVHVEDL PQRVGHETGGGDTGDKQVEVG ECAESHTLDALGLRCPEPVMM VRKTVRNMQPGETLLIADDPA TTRDIPGFCTFMEHELVAKETD GLPYRYLIRKGG**GLIGFDAAF SPHPNPLPRGARGPIALNVAIGL PYLLRNNLNFAVTSTVAPVSA STASHNPVIQRGDEEDPFQPQR NSDVLADIGVSGACQFNHLHQ AAQVVMG

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24676	55044	A	24814	1	1495	MQKLTLTYAETRRLYGKEVYH RPSRFIGELPEECVVEVRLRATV SRPVSHQRMGTPMVENDSGYK LGQVRHAKFGEGTIVNMEGS GIAALCHCRVLIATAALMDPDD AVELSVTTMMFALCNTRNPRV AWDTAPCVPATTAASMAKRAP DMSQSAAPEAGSQKPPRLSCGE SLHPLPATKRAYNYCRPVGRIR HLCRIRQSMPEATLSRLIRPTTV ADPPDKALAPHPAVFTRGDSKF LSHKPARSPAIRYLLASVWGPV GMMAMMLAMTGFVVATRKLRL RRFGFKSCKNGVLYRISSSSITT SPASPIATCRPVLPCWMRMDPM LDMMGMQMLMEKYGDQAMA GMDHSQMMGHMFLGHKVIRA NHVGDWGTQFGMLFRIAVETF KEDWEAVWDQLDDLNLLEGKIV A*GRDPAAFHIDNGAFTKLSVA YALAEVAAVVLDHRRTHPLM ADRAAYRGAQAHLFHTLFRQL ADKARRAMVNLFTIQTAGFRV GQRQFLH
24677	55045	A	24815	3	707	GCTLGPVKSFSLRVAWLSWPQ YFYIIRACSPCCGPLAPGEAPH VNLFHSTHSENKKQPHNSPYHN DIQPTLNLYLPTNQKKQTQQEQS HNITKQGSQQLHDVTQVPYQAY RSAIVVGLIRRDVSVASGIDCRM RRERLIRPTGRASDNTEFTGTQ NMQNITHSWFVQVMIKATTDA WLKGWA*AQRRQPDATPG*RR YRTISRQFPATSVLYPAQPAHA FTGKYTVYCHRLGQILP
24678	55046	A	24816	2	1340	
24679	55047	A	24817	1	2457	

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24680	55048	A	24818	41	1053	QRNQQAHLSF/QHSRDIYDNQV HLVRNCNLEMPDQEFIVLYGPS DCGKSTTLRMIAGLEEISGGDL LIDGKRMNDVPAKARNIAMVF QNYALYPHMTVYDNMAFGLK MQKIAKEVIDERVNWAAQILG LREYLKRKPGALSGGQRQ RVA LGRAIVREAGVFLMDEPLSNLD AKLRVQMRAEISKLHQKLNTT MIYVTHDQTEAMTMATRIVIM KDGIVQQVGAPKTVYNQPANM FVSGFIGSPAMNFIRGTIDGDKF VTETLKLTIPEEKLA VLKTQEV CPDHTLDALGLRCPEPV/HDGA QNRAQYAAWRNVADYRRRSRG HYPRYSWVLYLYGTRTGC
24681	55049	A	24819	3	131	
24682	55050	A	24820	247	492	
24683	55051	A	24821	2	241	YFFQKSSKTVIGGRRLCSVFRY QFSIVLATC*GTFFPSR*STILS* VTQSATSSGREGRSSSRSLNGRF MFSIASMMSW
24684	55052	A	24822	1	1143	

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24685	55053	A	24823	242	2151	FSRQHVVVKMKHCCKNVVILMP EPVAEPALNGLRLNLRIVSIVMF NFASYLTIGLPLAVLPGYVHDV MGFSAFWAGLVISLQYFATLLS RPHAGRYADSLGPKKIVVFGLC GCFLSGLGYLTAGLTAVCLSSA VILCRGVQLHPVSDLRIPRGEK AGRNRSVDGCCEKAMSIVIIG GGMAGATLALAISSLHSHGALPV HLIEATAPESHAHPGFDGRAIAL AAGTCQQLARIGVWQSLADCA TAITTVHVVELHNVGQRLFA\L LRKAPGVTLHCPDRVANVART QSHVEVTLESGETLTGRVLVAA DGTHSALATACGVDWQQEPYE QLAVIANVATSVAHGRAFERF TQHGPLAMLPMSDGRCSLVWC HPLERREEVLSWSDEKFCRELQ SAFGWRLGKITHAGKRSAYPL ALTHAARSITHRTVLIQSERLNH KALEKRTLTVWDNSFLIYRQSD VSEIRLASLFASFIRKSKQQR KHTNRRSKDKEKRTRQKRKTT SRQRRRRQRMVRVGDEQIAGC HCLYSTGSPNRQLREAGIELSDF VRGNEKARERMKAQYSIAGMT SGVVVGTDHAAEAITGFFTKYG DGGTDINPLYRLNKRQKQLL AALACPEHLYKKAPTADLEDD
24686	55054	A	24824	2	91	
24687	55055	B	24825	1	2346	
24688	55056	A	24826	1	1713	
24689	55057	A	24827	1	918	
24690	55058	A	24828	415	816	
24691	55059	A	24829	72	296	FCSATFGRPSDQYQNGE*LRWR GLGSFACQSPAHPENPQWKFVL ARRGFARGTAEAHPSQYRHW KIHLNPGRLR
24692	55060	A	24830	1	620	

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24693	55061	A	24831	1625	2460	GVVNPRQGRVLSMLPAMLLYL LFFLIQTSLKSNNGKGKLDPTL WMWTVNLIYLALAIVLNLWDT VPVRRLRASFSRKGARIPFVGC RETCELPQIELVKMMLGRELDT HALQRAGRTLSDKPVAFAFN YGKKGTIAPFDLEVRPGEIVGL AGLLGSGRTETAEIFGIKPADS GTALIKGKPQNLRSPHQASVLG IGFCPEDRKTDGIIAAASVRENII LALQAQRGICYVPPAKNSKRL PNALSASLAF AHLQLNNRLNFS PAAISKKCCFYVGY
24694	55062	A	24832	1	2034	
24695	55063	A	24833	3839	3970	
24696	55064	B	24834	694	765	
24697	55065	A	24835	1778	1982	
24698	55066	A	24836	1	268	MTCRLLTRLPQGAGVGKRVSG VPDELSPLFSVGSRYLQGGVGL VSPTSGANVGLPVISTNNLVKE CRIDGKWKMTCKGLNMFHFK
24699	55067	A	24837	568	713	
24700	55068	A	24838	217	1910	AFTFQESVMAFSQAVSGLNAA ATNLDVIGNNIANSATYGFKSG TASFADMFAFSKVGKLVAG ITQDFTDGTNTTGRGLDVAIS QNGFFRLVDSNGSVFYSRNGQF KLDENRNLVNMQGLQLTGYP TGTPPTIQGANPTNISIPNTLM AAKTTTTASMQINLNSSDPLPT VTPFSASNADSYNKKGSVTVFD SQGNAHDMSVYFVKTDGNNW QVYTQDSSDPNSIAKTATTLEF NANGTLVDGAM/ANNIATGAIN /GLSFLNSMQQNTGANNIVATT QNGYKPGDLVSYQINDDGTVV GNYSNEQTQLLGQIVLANFAN NEGLASEGDNVWSATQSSGVA LLGTAGTCNFGTLN/GSIESGI AFLVNVPLNPKLKRNVVAGAR WHPYGWPAFAERACLIEPEGD RRTHHRPNNQRTYSRKTQRQG GHKTRQDNWEQKGDGGRPEP TDPHQHDANRPTVATKKRRKS TQSQRNHRNPKGTHPTEEHGT AGTTKPPDTPQTDNWKHGS REGKANRKRNPRLGAEVAGGG KQRAKAERQTQRGERREDVDE GEEDRSKKTEK
24701	55069	A	24839	500	653	

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24702	55070	A	24840	445	849	GSPGTAGTEVAVVLKIGGVHD KVIGHYRCSTTNTGRVLDVAI/S QNGFFRLVDSNGSVFY/SRNGQ FKLDENRNPATGTPPT/IQQGAN PTNISIPNTLMQRKPTAGQIVLA NFANHEGLASEATTSGLRRL AWRCM
24703	55071	A	24841	1	453	MKQMDTRGKVINCAFAVSAAF ALGDHLGFAAANMNAMIFPMI VGKLIGGVTAIGVAMMLVPRY EFIKREISWQSPVFFTPVDKQGG LKEAELKTLILEQYHAAGIEPES VDSGAIITGESAKTRNAR*TGR FKRSGTENLKLEQYHAAGIEPE SVDSGAIITGESAKTRNARPTV MALSQLGDFVVASAGPHLE
24704	55072	A	24842	370	670	YSSNIMLRVLSRKALILVPSSSP VKARKPAMLARRGWRLSRW AILSLPGPGR*TGRFKRSGTENL KLEQYHAAGIEPESVDSGAIIT GESAKTRNARPAGMALSQLG DFVVARAGPHLESVNAGYRTRI RNHGHSWFPGEIGIRSQFPHTLR TGSINGKA WGA
24705	55073	A	24843	1	1623	
24706	55074	B	24844	1	4986	
24707	55075	B	24845	65	726	
24708	55076	A	24846	4107	4460	FMSTCGYGGGLSRFPARCLSYQ PLRSWRETVAASG*RRTGSARA NCFCFSGLTRDFSIWRPETK*SA QTFVVGTVRCGGMGR*IAAVL SRYSTVESGVSTHRLPLQPD PSGRRL
24709	55077	A	24847	624	895	PLVPAYKQSQRQKPHDYLNRC RKSL*QNSTTLHAKNSQ*IRY* WD/SISE**ELSMTPNPISY*MG KNWKHSL*KLAQDRDALSHRS YST
24710	55078	A	24848	1434	1594	
24711	55079	A	24849	1294	1488	PAGKQTQQRQRFANDGRGEI WRKLIKPNRRQKS*CSTDPRQ KSTLISQREAVIRRFSEAGNFH
24712	55080	A	24850	595	879	RRCSTTNIKKIQQDKGNRKA VHRSRFVHGRPITLLFFQLSGRI QSHRLPGRAALFAGIPAACDQS PSLRQPISSEWSDGR*HRRIFRS* SEEF

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24713	55081	A	24851	1009	1478	YLSVSVWAGATVMESPVWM PIASKFSIEQTMMQLSFLSRTTSI SYSFQPISSISNSLVGERSRPR AQISSNSSRL*AIPPLPPMVKD GRIMHGKPTSAATASASSIVCAI PERAVSRPIFFIATSKRRRSSALS IASAVAPIMVTPNSSNTP
24714	55082	A	24852	48	209	GLFQVGYAENCRDNNHSFSLH SVVIGSSSERVVAKK*PDADHF SASFVPVILK
24715	55083	A	24853	1358	3194	PTASEAATLAIGKPVAFDASAE ERDTRGFISITIRPPFGFTANVT RLETERGGICSRSPWEVVS AWAEAPDPPGVTLGLKTQHAT /VSEVTSRFRSHYRQFDLDQ AFSAKIFDRYLNLLDYSHKRKT ELGDEAAFSAKLDVFYDLYNL AQKRRFERYQYALSVEKPM FTGNDTYNLDKAPWPKNEA ELNALWDNVFSLAMTAFAREI DPHTNYLSRPNTEQFNTEMSLS LEGIGAVLQMDDDYTVINS MVAGGPAKSKAISVGDKIVGV GQTGKPMVDVIGWRLDDVVALI KGPKGSKVRLEILPAGKGT KTRTVTLTRERIRLEDRAV KMSVKTVGKEKVGVLDPGFYV GLTDDVKVQLQKLEKQNVSS VIIDLRNNGGALTEAVSLSG LFIPAGPIVQVRDNGKVRED SDTDGQVFYKGPLVVLVDR FSASASEIFARDVVVGLCIC LSSLDVWLCGLFCRCSVDA ERTKRQGGKGEESRKR RRKGYELSYLLFGWSAVLL FVSDAEQHRASRHGGNACQ QHDPVRHDEADGYPRQSHQ LRLRRFRCFRPGRPLRLRRC QHERHDLPDDCRQVDRRRN GDWRGDDA
24716	55084	A	24854	100	671	
24717	55085	A	24855	852	1335	YFCFWTYPLLFPVCM DRKAGKHGAPAGDLYVQVQ FNSHPIFERGNTLYCEVPIN FAMAALGGEIEVPTLDGRV KLKVPGETQTGKLFRMRGK GVKSVRGGAQGDLLCRVV VETPVGLNERQKQLLQEL QESFGGPTGEHNSPRSKS FFDGVKKFFDDLTR
24718	55086	A	24856	326	471	PLQTHPAPQQRGHP IYQHGGQTVS*SCRRRGW SSISRPVIHHADALMP

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24719	55087	A	24857	1095	1283	SCRRRGWSSISRPVIHHADAQL MP*PQIVYQHLKPPGIYRQQDR L*IPD*RPVLTIQDVRGP
24720	55088	A	24858	1	1159	
24721	55089	A	24859	1744	3019	KISPRRPQET/CFQKSTNIAREKT LEQEFVSQLEKIGRRMCLTRE GKKLLPHIYELTRVMDTLREAA KKESDPDGELRVVSGETLLSYR MPQVLQRFQRAPKVRLSLQSL NCYVIRDALLNDEADVGVFYR VGNDDAENRRELGEQSLVLVA SPQIADVDFTEPGRHNACSFII EPQCVFRQIFESTLRQRRITVEN TIELISIESIKRCVAANIGVSYLP RFAVAKELECGELIELPFGEQSQ TITAMCAHHAGKAVSPAMHTFI HALYSCMRRLRIRATRSCQF NILHEPRRADKRSASGSLRLQE FNYQDKPCMEIRIRTYEKTPIR MDKGLTNFGSRWILPELAHKE KDEETQQRKSKRDSRREETDT KKKTRDKATKREKDKEIEEMA SISITSRCEDKLENFSSMKYYTEI
24722	55090	A	24860	321	575	SYRRYVFPAQ*NRHLQFAVKPP APVIVHPTLVDSHHHSLHDKR RQHRPHHSVAHHGSRNSSATA TINALLGRVAQNAATRGR
24723	55091	A	24861	935	1637	PQPPPLRREGAGLEKELGGRR VRVKGSGCQPWICGKVPVFIPV ITEQESFQELI/RRTTTACESLGK EYEILMIDDGSSDNSAHMLVEA SQAENSHIVSILLNRNYGQHS MAGFSHVTGDLITLDADLQNP PEEIPRLVAKADEGYDVVGTVR QNRQDSWFRKTASKMINRLIQR TTGKAMGDYGCMLRAYRRHI VDAMLHCHERSTFIPIANIFAR RAIEIPVHHAHS
24724	55092	A	24862	1020	1229	

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24725	55093	A	24863	98	1242	MDKFRVQGPTKLQGEVTISGA KNAALPNLFAALLAEEPVEIQN VPKLKDVDTSMKLLSQLGAKV ERNGSVHIDARDVNVFCAPYD LVKTMRASIWALGPLVARFGQ GQVSLPGGCTIGAHIVMDKVS GATVTIMCAAILTEGATIIIEVFY FLPLAIGKFNELYPNIKVRILAEQ GTNNCMESVLCNIESDFGINM NNVTNSSIDFTPLVQRRPFVL ACRRDHPLAKKQLVEWQELVG YKMIGVRSSSGNRLLEQQQLAD KPWKLDWFYEVRLSTSLGLV EAGLGISALPGLAMPHAPYSSII GIPLVEPVIRRTLGIIRRKDAVLS PAAERFFTLSDFCPGVPSEDNI FESPASQQHEYIGSRQCFLMPSE TTGTMHV
24726	55094	A	24864	1	833	MAELGKRSSVAVSWIGKVKT AQMVALAWLLWRPPIWVEYA GIALFFVAAVLTLWSMLQYLTL RVQICLISDRFGVIFSKRSKVVK NIVDSSRQEYLEEFYARYNVELI RAPEGFFYLRPRSTTLIPRSVLS ELDMMVGKILCYLYLSPERLA NEGIFTQQELYDELLTLADEAK LLKLVNNRSTGSDVDRQKLQE KVRSSLNRLRRLGMVWFMGH DSSKFRITESVFRFGADVVRAGD DPREAQRRLIRDGD/AMPIENHL QLNDETEENQPDSGEEE
24727	55095	A	24865	819	1428	SPRGISRGGCRCQPISGDG/RIFA GILHGLDNELPLQEEVEGNGL QEGLPFPIRQSDALDLCFSDILV SPNMYIDDGMKRDWPVMKQC ALQRRWRILPDHYGTEPAEKRP GFAPHYCFSYALLVHMMAAQQC DLEVGFVWTGGDTHLYSNH MDQTHLQLSREPRPLPKLIKRK PESIFDYRFEDFEIEGYDPHPGIK
24728	55096	A	24866	2	1445	
24729	55097	A	24867	1	1785	

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24730	55098	A	24868	3	654	VRFFKGRGSSWHMVISQWDYV ADRFGTADLLPFTISDMDFATA PCIIEALNQRLMHGVFGYSRWK NDEFLAAIAHWFSTQHYTAIDS QTVVYGPSVIYMVSELIRQWSE TGEGVVIHTPAYDAFYKAIEGN QRTVMPVALEKQADGWFCDM GKLEAVLAKPECKIMLLCSPQN PTGKVTWCDELEIMADLCERH GVRVISDEIHMDMVWGEQPHIS LE
24731	55099	A	24869	955	1278	TLTPDFL*QGFFRFAGIAYQIV KQTTVGGTTVEITLRRYVVDGNR IPPRQDRQGD AFFGFATH TQQW HQVFKRQRDIQIVTANTATTVT QQAGFTIETRTPLRPHQQQ
24732	55100	A	24870	1	1707	
24733	55101	A	24871	1	3615	
24734	55102	A	24872	1	1931	MLLLREHTDTRHDHPRTPTTRAT RRRRHTEKKRRKKKRPATHVL MTATLIPVSRL LATDQPQLFHE SASKPAPHLVSSLGCHCGDASC SGRAVADAMQFKTVFPVFVAA AMNPEHMAESGHRITRPEFPDY REL FRES DIKSAV VDSICQCNTP FNYLFRCFELQCLSRHGHSAYG VMQRRHSPMQETRIASLPLQRY RWHEDSVRNRWFSVMVGPSVR VNEWFSAYAMAGMAYSRVST FSGDYLRQPLVSGFHEA
24735	55103	A	24873	1281	2234	ISTNSILRIFSGFRKLM EV/TRLR DTPILTFMKNKLD R/DIRDP MELL DEVENELK/IGCAPITWPIGCGK LFK/GVYHLYKDETYLIQEVRI KGLNNP/DLDAAVGEDLAQQL RDE/LELVKGASNEFDKELF/LA GEITPVFFGTALGNF/GVDHML DGVMAGDRSHVEEAY/PGDIL G\QGEMMKFTGIPNF/APELFRR IRLKDPLKQK/QLLKGLVQLSEE GAVQV/FRPISNNDLIVGAVGV LQFDVVVARLKSEYNVEAVYE SVNVATARWVECADAKKFEF KRKNESQLALDGGDNLAYIATS MVNLRLAQERYPGRQFHQTRE

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24736	55104	A	24874	2	760	AKFEKFLAVPAEALVYTMKG DQKYFPVYANDGKLLPNFIVA NIESKDPQQI/DRIQALAGWIAE QIGADVNHATRAGLLSKCDLM TNMVFEFTDTQGVMGMHYAR HDGEAEDVAVALNEQYQPRFA GDDLPSNPVACALAIADKMDT LAGIFGIGQHPKGDKDPFALRR AALGVLRRIIVEKNLNDLQTLT EEAVRLYGDKLTNANVVDDVI DFMLGRFRAWYQDEGYTVDTI QAVLARRPTRPADFDDWHA
24737	55105	A	24875	2	391	
24738	55106	A	24876	2	1785	WLLYRAHVKG/STEALLPNM VATSLAKLPIPKLMRWGATYV HFVRPVHTVTLLLGDKVIPATIL GIQSDRVIRGHRFMGEPEFTIDN ADQYPEILRDSGKVIADYEERK AKIKADAEAAARKIGGNADLSE TLLEEVASLVEWPVVL/TAKF/E EKF/LAISRTALVPYSADNMYQ LVNDVQSYQPFLPGCTGSRILES TPGQMTAAVDVSKAGISKFTTT RNQLTSNQSIMNLVDGPFKKL IGGWKFTPLSQEACRIEFHLD FTNKLIELAFGRVFKELAAANMV QFTVRAKEVYSASMRYIYVIV YISYRPPNLLDSHIIGFSSITHC AVTSHHYNSCDMTMTIHSYVT PYISVRVSLTQTYAPSPSRNLRI TDLTIYRAISSEKSIDDTRIHTI ESRCRVCGAHDSDAERLDRF AQTADEIRIADRGFSSRPECIRS LAFGEADYIVRVHWRGLRWLT AEGMRFDMMGFLRGLDCALIS KTRLLSENRRKGRVVQAETLE AAGHVLLLTSLEPEDEYSAEQVA DCYRLRWQIELAFKRLKSLHL DALRAKEPELAKVGIFANLLAA FLIDDIIQPSLDFPPRSAGSEKKN
24739	55107	A	24877	1	2022	
24740	55108	A	24878	2344	2523	
24741	55109	A	24879	82	732	

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24742	55110	A	24880	828	2184	SGCILPPESLRLWASVARRPRT NQPRQPGPKIGGISPAGSALALA CGKRTVLFASLCTRTGGSQGE PALVLLADQMLALDDQYTFLQ RIPRSPYGLAFGPVPHLHYLHQ MRLLDIAPIAFRAMSLAFPVNY LDAVRTGSICSNCNQRSNDSAM GISMNVSTLMRVRAIWVYAAAY MERVLNLLNNAALRYCHSTVE TSLLLSGNRATLIVEDDGPPIAP ENREHIFEPFVRLDPSRDRSTGG CGLGLAIVHSIARGNWATSDHR SLTGTQPYARIVVFLVRLIFAFR VTQLTLQISFVRVQNAFPG CPLGIGIDVHFYAVAYGVDF LSSRTGTTVFFDDLNTPDFDRC FAFMQAVGKGYTDAYLPIVER RKAMAYGERERNFQYRRGRY VEFNLPSELAATVYQSDPNFAT GCFRLYTSCNTFNMHKAATML VRAEFSQGYQHGV
24743	55111	A	24881	679	1628	PDADAKRVDITLCLAFGCDAQF IEITFTRLPEVRIHHLQSPASALS SCNHLLIRITQFNADITIGHLP VNRRVTVLRDMRHHGDIVHP GVRRGVEHYAAMDGPVKEIM EVRLFLAVFVGNHHSRRDPL VQFVVHTNGDTYTFPGNNIRRD IGFKWRIAALMLHHFLIIDPHFA VMSDRIETQHDTLACPNFRYKD FALIPERCRII/SEYLDRTDRLK WCYAAFQQGDQSASNPMYA KAPV*VRWVHGYKALSEKGHL VYQRLYQIFQHAETGTND EISTKLCLFSSLLLLSSSLQHSI PPNACL
24744	55112	A	24882	1	1515	
24745	55113	A	24883	1954	2859	
24746	55114	A	24884	121	393	SLARWIICTSEELAANIKRLGD VTVRLNAFHAGVYGEAQSM GERHAGRR*AVG*CVKGARGE PVDISGAQL/RGCGVNALSGLR FGTDL

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24747	55115	A	24885	1	3706	MDLGANGWQTFRYVVLPLNSS ALLAGGMLAFALSFDEIIVTTFT AEQVDAAVRAADAAFAEWGQ TTPKVRAECLLKLADVIEENGQ VFAELESSNNTAFARASSNGDL PTKADLQAQLDSL NKQKDL SA QDKLVQQDLTDTLATLDKIDRI KEETVQLRQKVAEAEPEKMRQA TAALTALSDVDNDEETRKILST LSLRQLETRVAQALDDLQNAQ NDLASYNSQLVSLQTQPERVQ NAMYNASQQLQQIRSRLDG
24748	55116	A	24886	2842	5034	NVRLSPAMRCRWRRGSPMPAM FEVGVKTRIIQRSREVLIMADHS KFDAVEPHAVATLSCIKTIISDS GLPETIAQRYQRAGSSLPEAQP DREIEKRGPAAIAQAFDAEGKPS KASEGWARGCGITVDQAERLT TDKGEWLLYRAHVKGESTEAL LPNMVATSLAKLPIPKLMRWG ASDVHFV\WPVHTVTLL\LGDK VIPATILGIQSDRVIRGHRFMGE PEFTIDNADQYPEILRERGKVIA DYEERKAKIKADAEAAARKIGG NADLSESLLEEVASLVEWPVVL TAKFEEKFLAVPAEALVYTMK GDQKYFPVYANDGKLLPNFIFV ANIESKDPQQIISGNEKVVRPRL ADAEFFFNTRKKRLEDNLPRRL QTVLFQQQLGTLRDKTDRIQAL AGWIAEQSGTDAGDQTGYSDE RWVPDAHSEAPSPVSDMLSAL LLLTLVLAGMVRMAARLLMA KPPQAVNRGDIGWLTSPMVIL LVMMMLAMGTHIPQPVIRIPGGR FHYSHPQGRDLPQQRSTWHD FCLQAPHLFRRNTVNVSSSNR GEAILAALKTQFPGA VLDEERQ TPEQVTITVKINLLPDVVQYLY YQHDGWLPVLFNDERTLNGH YAVYYALSMEGAEKCWIVVK ALVDADSREFPSVTPRVPAAV WGEREIRDMYGLIPVGLPDQRR LVLPDDWPEDMHPLRKDAMD
24749	55117	A	24887	49	531	
24750	55118	A	24888	1619	1968	
24751	55119	A	24889	1	553	
24752	55120	A	24890	744	970	LAVISEASNQKRGDPVDHAD*I AVANMLLNQFQQSYTPMLHDL IVRYDGDIIHQKSFQVQLPGKL RIVKLIQVE

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24753	55121	A	24891	52	455	
24754	55122	A	24892	2988	3614	PVSVLTQKRLSPATSHRSTCRVI LNQAYVTPSKCWPDVEEISFNF FHSEDVVRHPVVARIVNAYEA WEEAEQKTMTPANQHAGGLV QCDKMLLQRRSREVIELSEQNA AQMRHVRGADMAMIFQEPMT SLNPVFTVGEQIAESIRLHQNAS REEAMVEAKRMLDQVRIPEAQ TILSRYPHQLSGGMRQRMIA MALSCRPAVLIADPTTALDVT IQAQILQLIKVLQKEMSMGVIFI THDMGVVAEIADRVLVMYQG EAVETGTVEQIFHAPQHPYTRA LLAAVPQLGAMKGLDYPRRFP LISLEHPAKQAPPIEQKTVVDGE PVLVRNVLVTRFPLRSGLLNRV TREVHAVEKVSFDLWPGETLSL VGESGSGKSTTGRALLRLVESQ GGEIIFNGQRIDTLSPGKLQALR RDIQFIFQDPYASLDPRQTIGDSI IEPLRVHGLLPBKDAAARVAW LLERVGLLPEHAWRYPHEFSGG QRQRICARALALNPKVIIADEA VSALDVSIRGQIINLLDLQRDF GIAYLFISHDMAVVERISHRVA VMYLGQIVEIGPRRAVFENPQH PYTRKLLAEDPVAEPSRQRQR VLLSDDLPSNIHLRGEEAVVALI KPGAQIGRPQSWT
24755	55123	A	24893	134	595	IRTGRNESYKGDISRYKFVSAR ALRNEVRGGRCHKTIRRVSVG KKVIGLKFRHLVPVTPESIVIP PAPVANDTLVAEVSADAPQAND PTFNNECLA*FAVLSTPTAILISC PGRWGPAAGSECGVRGAHAHR ELALRAFSCCFSSNAISIPN
24756	55124	A	24894	708	1444	TDAPGDEEASLQRAAQAGVGK IIVPATEAENFARVLALAENYQ PLYAALGLHPGMLEKHSDVSL EQLQQALERRPAKVAVGEIGL DLFGDDPQFERQQWLLDEQLIL VKRYELPVILHSRRTHDKLAM HLKRHDLPRGTGVVYGSGSLQ QAERFVQLGYKIGVGGTITYPR ASKTRDVIAKLPLASLLLETD PDMPLNGFQQPNRPEQAARV FAVLCELRREPADEIAQAVLNN TYTLVNVP
24757	55125	A	24895	1460	1777	

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24758	55126	A	24896	381	482	IPGPQSPQSSPDLGWLQC*NP*RL LLWKAPRSDK
24759	55127	A	24897	977	1144	
24760	55128	A	24898	2	280	CTFALRDEYPRMLNVDNKGLR DHIELQPLAV/DASYPGGDFRK NAVYVPMW*SAHCEPEGRFAE TGSRRYGEDFASTAPGFRRAAT RKRVRRRK
24761	55129	B	24899	1	1665	
24762	55130	A	24900	296	495	
24763	55131	A	24901	1	5352	
24764	55132	A	24902	187	280	AVDTGLADHRD\EPNMVARLP LSFTASLSIS
24765	55133	A	24903	1775	1981	HIWQNSLIVLFRGCRSAHAKVH RWKN*LPLNLAPLLPRSGSSAPI RPPPSAQAQPMKSTYGVDRR HS
24766	55134	A	24904	760	1473	
24767	55135	A	24905	1	2124	MNRMSGGYWQLFAESGETCR ARELEQCLED FYDQRKESVRW HLDLHTAIRGSLHPQFGVLPQR DIPWDEKFLTWLGAAGLEALV FHQEPGGTFTHFSARHFGALAC TLELGKALPFGQNDLRQFAVTA SAIAALLSGESVGIVRTPPLRYR VVSQITRHSPSFEMHMASDTLN FMPFEKGTLA QDGEERFTVTH DVEVAKNAITEIKTQFEKEKLA QDRIKRNQ/LDANIQRLNYSLDI ANAAGIKKPVYSNDGIERKLEI EKAVTDVAELNGELRNRQYLV EQLTKAHVNDVNFTPFKYQLSP SLPVKKDGP GKAIIVILSALIGG MLYCRVCIKRNADSPEVFSGFS DPNVVLIAAVFIIGDGLVRTGV ATVMGTWLVKVAGNSEIKML VLLMLTVAGLGAFMSSTGVVA IFIPVVL SVAMRMQTSRSLMM PLSFAGLISGMMTLVATPPNLV VNSELLREGYHGFSSFSVTPIGL VVLVLGILYMLVMRFMLKGD TQTPQREGWTRRTFRDLIREYRL TGRARRLAIRPGSPMIGQRLDD LKL RERYGANVIGVERWRRFR RVIVNVNGVSEFRARDVSLIAM SAADVDLRQFCSERLLEPDGIA RFS LIPESELIGESVREIGLRTRY GLNVVGLTRTGVALDGSLADE PLLLGDISWLWALESDRYAAM LGRSRSLTYRRGDEHCRASRSP

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24768	55136	A	24906	834	993	EEIEVARLRDQKSAEGGIQNRE YWPGRSGHR*SPHAPIGTQFLQ ALFQTDQFVFALSACGRRHP TDGRRQNPAVSGHSVAARQPA HSQTDEASG
24769	55137	A	24907	3519	5161	
24770	55138	A	24908	374	1891	KWKLRPDSNIDHRRVPNLET WFSRHDKTRPTSKNPSDYQAG DIVSWRLDNGLAHIGVVSDGFA RDGTPLVIHNIGAGAQEEDVLF NWRMRQCQHNQHNTATFNGP RILAEQPPGKEYAANGNGQLYP MSSLNIKQGSDAHFPDYPLASP SNNEIDLLNLISVLWRAKKTVM AVVFACAGLLISFILPQKWTS AAVVTPPEPVQWQELEKSFTKL RVLDLDIKIDRTEAFNLFIKKFQ SVSLLEEYLRSSPYVMDQLKEA KIDELDLHRAIVALSEKMKAVD DNASKKKDEPSLYTSWTLSTFA PTSEEAQTVLSGYIDYISTLVVK ESLENVRNKLEIKTQFEKEKLA QDRIKTKNQLDANIQRNLNYSLD IANAAGIKKPVYSNGQAVKDD PDFSISLGADGIERKLEIEKAVT DVAELNGELRNRQYLVEPITK AHVNDVNFTPFKYQLSPSLPVK KDGP GKAIIVLSALIGGMVAC GGVLLRYAMASRKQDAMMAD
24771	55139	A	24909	1111	1895	PLVNFSNSSHPVSNPSIQLSSITL PLVENESRARA\VKDQMDAIDH QTGVRPLVFYSIVLPEIRAILQS EGFCQDIVQALVAPLQQEMKL DPTPIAHRTHGLNPNLNKYDA RIAAIDYTLAHDGSLRNLDQ AQVILLGVSRGKTPTSLLYLAM QFGIRAANYPFIAADDMDNLVLP ASLKPLQHKLFGLTIDPERLAAI REERRENSRYASLRQCRMEVA EVEALYRKNQIPWINSTNYSVE EIA TKILDIMGLSRRMY
24772	55140	A	24910	77	434	EKKRGREDKPGTMATFPPATSA PQQPPGPEDESSLDES DLYSL AHSYLGPLIMPPTSPLTPALV TGGGGRKGRTRKREAAANTNRP SPGGHR/ERKLVTKLQNSERKK RGARRLRQSWR
24773	55141	A	24911	31	295	

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24774	55142	A	24912	75	426	EKKRGREDKPGTMAFPATSAPQ\QPPGPGGRDSQPWMDLLDLYSLAHSYLG\GGGRKGHTKRETAANTQPPQPLAGHERKTVDPKLQ\NSERKKRGARALRQELEMRRRPWTLTPSQ
24775	55143	A	24913	1	1107	
24776	55144	A	24914	1	1468	
24777	55145	A	24915	1	2463	
24778	55146	A	24916	1	603	
24779	55147	A	24917	118	1087	IRSKKMTTQTVSGRRYFTKAWLMEQKSLIALLVLIAIVSTLSPNFFTINNLFNIIQQTSVNIMAVGMTLVILTSGIDLS/VAASIVGIEVNALVAVAAALALGAAIGAVTG VIVAKGRVQAFIATLVMMLLL RGVTMVYTNGSPVNTGFTENADLFGWFGIGRPLGVPTPVWIMGIVFLAAWYMLHHTRLGRYIYALGGNEAATRFSGINVNKIIVYSLCGQLASLAGIHKVARLSSAQHTAGTGYELDAIAAVVLADDRQSGGDFAGGAGRQKQKAVITTTGHLEYEHEKTGYPGFRCCAHRHQCECDGKRHHHRAGGLHA
24780	55148	A	24918	1	1286	MHEREPGLRAALAGQLEFRVGLGLGVWTLRLMELLRQRLELVYTASDGQEYEMVSRLNWNVNYLVLEDVHIILPDQMRGITGCYATHPHERRLHAGTVHRQNIVNNPPDCVPRDAGEAEVAPDPSLASLQLQTPELPGLISCHNSIQVSNEARLFELLICQWRDFRKRVIAAKSMQGRELEGGQRGQDKATNPFRLVALKGSGDPDPHGAGRQGSDDLHPVSDAQVLQHFFQRRALLSSPWDYHDVVGLCAQEPCGYIMELFIIKHQCSLAQTAGSLAPEQKKELEMTVRYIYISSADLTAEKFATAIRN/HWHVENKLHWRLDV*RQFDKHCSTADSTRILASFVRHVNAALDVRVVFASGSETTHGDGARRYLRCDVDWRRRTAVAQADKSARACHFYAGYHHHEHFADPVSVGAKYHTVFST

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24781	55149	A	24919	417	861	AKGPCPDRNHSSDDKDVIADG KTLRHSYDKSRR\RGAIHVISAF STMHSLVIGQIKTDEKSNEITAI PELLNMLDIKGKIITTDAMGCQ KDIAEKIQKQGVIFSLCPASIIDD KKVTDLAVAVQGTLLKTGSGGI LPPGGALKKISEKL
24782	55150	A	24920	3	1767	HISHPDYR*AWKVEHKLSGILL LTIFAVISGAESWKDIEDFGKTH LDFWKQYGFENGIPVHDTIAR VVSCISPAKFHE\CFINWMRDCH SSNDKDVIADGKTLRHSYDKS RRRGAIHVISAFSTMHSLVIGQI KTDKKSNEITAIPELLNMLDIKG KIITTDAMGCQKDIAEKIQKQ GDYLFVAVKQRNGAVENRAKTQ TRIAFGDHFRRQVSQRIRLFCH RLATQFAARLRMFIATGQPMN GLRLLLFIVNKQAALLVNKLDA QMAAFQQLPGRGRQATVRRE MDLCAFAERMGLPVS RPGDIQE FHAGCRTKFDAGAFRDKHHVA CFGDHGLAFVANMQLPFQHHV DFVVVQGPREECVLPLHKTGG HAAAVVSGHKISQAHAMRLCA VETTKLDATGINHFDAAAFAGHR FESSVDCACSATVSFITFPSVCD RFGNWLRSGRCSHAARKNEITL TNTRRSLRPKRNTERHDMQTR ATVIAAGEKLLPYAETLMSTW QAARKEVAHTSRHNEFSIGASA SLWDMVMTSAGAVVTTVVVA VRPSSFYILCSHKKKRTLHTRK EKTVDRRKEYETRAKRSETDT

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24783	55151	A	24921	110	1282	SNTPYIIKENKMELKKLMGHISI IPDYRQAWKMEHKLSdiLLLTi CAVISGAEGWEDIQDFGETHLD FLKQYGDFENGIPVHDTIARVV SCISPAKFHECFINWMRDCHSS DDKDVIADGKTLRHSYDKST/ RRRGAIH\VNNAFSTMHSLVIG QIKTDKKSNEITAIPeLLNMLDI KGKIITTDAMGCQKDIAEKIQK QGGDYLFaVKGNQGRlNKAFE EKfPLKELNNPEHdSYAMSEKS HGReEIRLHIVCDVPDELIDFTF EWKGLKKLCVAVSFRSIIAEQK KEPEMTVRYYYISSAdLTAEKFA TAIRNHWHVENKLHWRLDVV MNEDDCKIRRGNAAEfSGIRH IAINILTNDKVfKAGLRrKMRK AAMDRNYLASVLAGSGLS
24784	55152	B	24922	258	507	
24785	55153	A	24923	1	3060	MTEIEENMLLPISGQELPIRWLA QHGSEKPVTHVSRDGLQALHIA RAEELPAVTALAVSHKTSLLDP LEIRELHKLVRDtdKVFPNPGN SNLGLITAFfEAYLNADYTDrg LLtKEWMKGNRVSHITRTASG ANACGGNLTDrgDSfVHDlTS MARYVATGVLARSMGLVIYSFI QHTLTLEeYREITaFLfREFTHA AAARYTGEQETLPLSPQWILRQ CKEVAStCDGDTfSGEQlNLM LQQREWREGFLAER
24786	55154	B	24924	56	967	
24787	55155	B	24925	1	1776	
24788	55156	A	24926	1	864	
24789	55157	A	24927	424	513	
24790	55158	A	24928	1	5049	
24791	55159	B	24929	1	939	
24792	55160	A	24930	1	1837	

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24793	55161	A	24931	1	2249	MLPDIARFLPRLANDQIEFTW YVNHFTYSNAIKIFCYQMFLAS TQARASGAPLQRLFRAIGGNA WERPFRMVFCSAAFSEESSPFR ETNYEPQLFLGFATDYRFAGW TLRDVEMGYNHDSNGRSDPTS RSWNRLYTRLMAENGWNLVE VKPWYVVGNTDDNPDITKYM GYYQLKIGYHLGDAVLSAKGQ YNWNTGYGGAELGLSYPITKH VRLYTQVYSGYGESLIDYNFNQ TRVGVAIGVNVAQAEVLNLE SGAKQVLQETFGYQQFRPGQE EIIDTVLSGRDCLVVMPTGGGK SLCYQIPALLNGLTVVVSPLNS LKEKSANPFETFAAFAHAFHW VIQAIGMINTPADGSTHKQART SWLPYSSLPVLSVSTQDEKAKK KMRFMQRSKDSLAKWLSAILP VVIVGLVGLFAVTVIRDYGRAS EADRQALLEKGNVLIRALESGS RVGMGMRMHVQQQALLEEM AGQPGVLWFAVTDAQGIILHS DPDKVGRALYSPDEMQLKPE ENSRWRLLGKTETTPALEVYRL FQPM SAPWRHGMHNMPCNG KAVPQVDAQQAIFIAVDASDLV ATQSGEKRNTLIILYALATVLL ASVLSFFWYRRYLRSRQLLQDE MKRKEKLVALGHLAA/GVAHE IRNPLSSIKGLAKYFAERAPAGG EAHQLAQHVQIRRFHAHPAS

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24794	55162	A	24932	261	2115	TLVFCWHAKLLSHGVFMDIISV ALKRHSTKAFDASKKLTPEQAE QIKTLLQYSPSSTNSQPWHFIVA STEEGKARVAKSAAGNYVFNE RKMLDASHVVVFCAKTAMDD VWLKLVVDQEDADGRFATPEA KAANDKGRKFFADMHRKDLH DDAEWMAKQVYLVNNGNLLG VAALGLDAVPIEGFDAAILDAE FGLKEKGYTSLVVVPVEDLAGI EIDHTTSMVMIFGIIFLTAVVVH IILHWVVLRTFEKRAIASSRLWL QIITQNKLFHRLAFTLQGIIVNIQ AVFWLQKGTEAADILTTCAQL WIMMYALLSVFSLLDVILILGQ KFPAAVQLPLKGVFQGIKLMGP ILVGILMISLLIGQSPAILISGLGA MAAVLMLVFKDPILGLVAGIQ LSANDMLKLGDWLEMPKYGA DGAVIDIGLPTVKVRNWDNTIT TIPTWSLVSDSFKNWSGMSASG GRRIKRSISIDVTSIRFLDEDEM QRLNKAHLLKPYLTSRHQEI NE WNRQQGSRESVINLRRMPNIG VTFCAVYLNK\YLGTH\PRIRKDM TLMVRQLAPGDNGLPFEIYAFT NTVVWLEYESIQAIDFDHIFAIV EEFGLRLHQSPGTGNDIRSLAGA FKQ
24795	55163	A	24933	1	757	
24796	55164	A	24934	8	343	
24797	55165	A	24935	1423	1761	
24798	55166	A	24936	1	851	MKGDTKVINYLKLLGNELVA INQYFLHARMFKNWGLKRLND VEYHESIDEMKHADRYIERILFL EGLPNLQDLGKLNIGEDVEEML RSDLALDLDGAKNLREAIGYAD SVHDYVSRDMMIEILRDEEGHI DWLETDLIQKMGLQNYLQA QIREEGKSIYQEQTAMKRDPY RTLQALDAVIRERGF/EARGTK AVHYTISRHTAH*ATGKYVRAA AVGAYRTAAPDGTRAKTAGTA APGGVAGRRVAGR*TNRFDSA AAFTGGQRRQSGDVVASCTGS CVG

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24799	55167	A	24937	1645	2009	PVFIQFVEGMCGTANEPACLLV NQSPAIFYPGKIAAIWQNPRHV ESGSM*TL/IDSD*VSPTECLSPR HHYMPFEEAARGYEIFEKREEE CRKVILVPGAQSAEAAQKAVS GLVNAMPPGGTI
24800	55168	A	24938	1	3936	
24801	55169	A	24939	1	2240	MRSPMTRNSRNGKHDYKPPPR KRRQPPHDHTAPNSTPARNQRG RPHRPNRQAGQREQRANNPTP NTPSPPTNDPAEPHQTRHDSR QPHNTPPAYAEVAAALLTTDT NVTRRLRYMQPDTKLCHSAG KSIYQEQTAMKRPDYRTLQAL DAVIRERGFERAAQKLCITQSA VSQRIKQLENMFGQPLLVEDET RTQERLRRGEVVGAVSIQHQAL PSCLVDKLGALDYLFVSSKPFA EKYFPNGVTRSALLKAPVVAFD HLDDMHQAFLQQNFDLPPGSV PCHIVNSSEAFVQLARQGTTC MIPHLQIEKELASGELIDLTPGL FQRRMLYWHRFAPESRMMRK VTDALLDYGHKADDIILRITAT AICGSDLHLYRGKIPQVKHGD FGHEFMGEVVETGKDVKNLQK GDRVVIPFVIACGDCFFCRLQQ YAACENTNAGKGAALNKKQIP APAALFGYSHLYGGVPGGQAE YVRVPKGNVGPFKVPPLLSDD KALFLSDILPTAWQAAKNAQIQ QGSSVAVYGAGPVGLLTIACAR LLGAEQIFVVDHHPYRLHFAAD RYGAIPINFDESDPAQSIIEQTA GHRGVDAVIDAVGFEEKGSTT ETVLTNLKLEGSSGKALRQCI AVKRCGIVSVPGVYAGFIHGFL FGDAFDKGLSFKMGQTHVHA WLGELLPLIEKGLLKPEEIVTHY
24802	55170	A	24940	687	792	TPTLTRPLRHPVAYRATLK*NR PAKVSQLCCTNA
24803	55171	A	24941	3	510	AGDMVWLCVRTQISY*IPRTHP AVGIPRERPLRGADTPQRGASH RIRGEGKRK*KRWALLCCPGCN I*RHFCHHN*ERYFWIYWVEST GAVKHLQNTGHWLNAGALPV RRPRKSVTGSARQ\SVSPISAR ALLACPCGQCAGYATQFVMKS ITQRFNVACRTRMYAVG
24804	55172	A	24942	189	563	

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24805	55173	A	24943	1224	1772	GSPSVSLATSSCSIKVQNPGISR VVAGSSAIIISNVSPGCILRTVLR TIITGSGQRRPSASSVWSGHTSC VVRTANFSSGMVNLSVSVTNLS PSIVPRIKFIAGDPINPETNIFAG WL/VNGFRRTYLLNPNVFHNH NPRRHGHRFGLIVGHVDHGGV QFLMQLADLCAHLHAQLGIKV
24806	55174	A	24944	1541	3675	LEIIKRKISMRRNWMHSHTRY WRFLDFPTLRGGRWMR*SGEK LNPISTPLRANCLALAQRATRL APMSFTWGMPTSQPDCAVPGR RALPPELLCLQRSSQSRFAGTAI T
24807	55175	B	24945	1	1497	
24808	55176	A	24946	650	739	
24809	55177	A	24947	4447	4804	RQNDRYSGRERHEITPLCW*IPR IAWALWLRSLRRGPQEKSLHN RVARTISWPYQARHPCRTLLGG HGFFLHIVLSQLPCLSYPLSSFA GLLARSSMFLKLAARFLCCRRS YAASPLSI
24810	55178	A	24948	1	3774	
24811	55179	A	24949	431	949	NYAIYHQNHGVDNISPLGLKTHN YRQQHCGITYYWRDLMPANK NYKQRWITPGSASFYRSSHKAL IRLLATRLPAFPWGRRSAWRWP VRY*IRVPSSGSYHLEISMRWVI FPQPKALTPSNLHWKTA*LWS* KTLSEFVCWIATVLPARFWKLT PWLAILPCANIYWQASAPD
24812	55180	A	24950	337	648	

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24813	55181	A	24951	1	1430	MFTYPHSKFRVNRFGVQVLLIE FSILLDGGRTGLGHSLSVWCISG DCSSFLQGKPTSLPLRKPSAIIICS DSLSGSADLLRNHNHFVCTAADT FTTDITPEAGDARLIGIAQTVRH LEDPMRAWKSIHKSCEILDPIHR APVKENTHPARKINISDPAAGA VARIRYEGVLSVCRASASAYVS RSRTITVACWYVSNTGVTGATI GVKRQHRHARLFSGDGAPGFG TGKRDIRQLRRLVRIQIQRFFA AVLHVPTPWSRAIDAAALLTVI DVKVLTAACACQACRTLALRVA QVIDRCSNPGDIMSSVARRYWF ISRWSAKRDCAVSYDQDPGQA QRSCRSLVAVDRGLWLSAYC RSLMTQTLLPDDVPRILPNASSP SRLRCLHIWVITACWICANSSG FIARNL/GLCGWEKRLVKDLTRI QDTGRAKEILGATATLEFRIR*T PTLTRPLRHPVAYRATLK*NRP AKVSQLCCTNA
24814	55182	B	24952	1	1295	
24815	55183	A	24953	3151	3207	LQWLID*WCL**TFDLRFA
24816	55184	A	24954	2740	3917	NGRSVWAVKLELFRVKPLDIPQ QRVGQQHVLLKAFNRRLAMQF IQLIATDVTEILPLHVVEDGTDS LYCLALSHLRGRLSLRWRREL PRGLGVNVSWCYPFKAQGGCA AEITDKAGQREIFGFARVKENA GYVIYECYQPDDGDKLIRELPF SSLIFARQWFVVGELLQHLPE DRITPIVGMLQGVVEKGGELRV EVADTNESKELLKFCRKFTVPL RAALRDAGVLANYETPKRPVV HVFFIAPGCCYTGYSYNNNSP FYMGIPLKFPADAPSRSTLKLE EAFHVFIPADEWDERLANGMW AVDLGACPGGWTFQLVKRNM WVYSVDHGSVMVQ/SLWITTGT CWGTRFHSARGQKFPEVLQGS QTLPAATDPPGMQWLASGVLE
24817	55185	A	24955	1	519	
24818	55186	A	24956	510	731	

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24819	55187	A	24957	1	1055	MRLCPEKTTKAKRVKAVLAWS KEEPWLSEWSEEVLMEGYKKL GDFSTAGAILETEIRPSPASAFTL DSQPPESSNNLSEAKYAPNNIESI AKYFAPKSPMFSESPSGTALDS FNRNERRRWPLWPNKSGFGSD LTLKIGISSPDIALERLYEQAR KLSGKFRALSELDESARSGVLK VLCAFA YQDYSRSAASTRKCD CCDGGGFTEAQVFTNKVSYPW GKPPYWSKMSRAVRPSDWESW TQAREVVRVKCKPCNGKGVIS NSCRCHGKGKVLAKHESDRRG VPVMKACDRCGGRGYARLKFS SVMRALILLRRLKKTAAEYQL QPLFEELVAECHKQESMADSIL SKVTR
24820	55188	A	24958	361	725	
24821	55189	A	24959	1100	1738	WQRSTLPLLFESAMQTGVNAG NPVAW*KSAGYGHIKLYDAKN RLVLVQSTALWASQLVQYLSTF FRKNLKRPFSEFVTLADEIEHVN AYLQIEKARFQSRLQVNIAIPQE LSQQQLPAFTLQPIVENAIKHGT SQLLDTGRVAISARREGQHLML EIEDNAGLYQPVTNASGLGMN LVDKRLRERFGDDYGISVACEP DSYTRITLRLPWRDEA
24822	55190	A	24960	1	2043	
24823	55191	A	24961	2164	2487	KLKRIARHNFHGIRDLHLFQQV NRFSSGFPTYWLMMAHDVHH LKTYSTCRIEGGHRFLKDHRHS CAAPLTKLFFPRVKNIFSQQGN LPPMYAITARR*QTHNQHCGD

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24824	55192	A	24962	128	2574	QVVVVMAMVAKVVVIDIVVVV GVEMIRVKVVAIVVEVVVVEV VVVMVAWWW****WW*/DMG EARWWWEYGVWEVEPEIILNA PQQYLLAGIGDTLAKWYEAVV LAPQPETLPLTVRLGINNAQAIR DVLLNSSEQALSDQQNQQLTQS FCDVVDAILAGGGMVGGGLGDR FTRVAAAHAVHNGLTVLPQTE KFLHGTVAYGILVQSALLGQ DDVLAQLTGAYQRFHLPTTLA ELEVDINNQAEIDKVIAHTLRPV ESIHYPVTLTPDTLRAAFKKYS QSCFVIRLGGDFIHQLAENHIVI FVNNHNGTRCQTFQWAISNCH TVSLQKFSVRKFLSDLFAIGGR RGVRPPEAPGHQKSDNQAHV SVSFDGLDLVFFVFNQWAGVV FCFDLFSRKRGRFSVWRNKGFG RYCQRLANFRDRQAFQLLNQIH FTRCKQVDNGGTEFKATHFLAF QQCHRTVVFPGRPAIKTRVERL DRYRNRMEKSNGQANLRVHG GTWEKLVQLDSAGMVNRVSS VGAPLREPIPTGKGAKEDTWG NLSSNDPLLEAFGGQFGIAISMH QTLATRGGKRNARPTTRPRFHR GTNPRGIAPHIGTANARYSTGH CPVALPFGLRGPPLARENVATA TKGHESASRETEVVAVAKLTSR VLLICDATHALPIQVLRNDIRVI AAGNGCTDDLQLEHLPANTDIR
24825	55193	A	24963	117	335	PGLAPATRRSTPGRFNADAGAD *RRAAGTGAGRAKRRGVGIHR CLADPFLADCRNAGLRGAALC GTAAASGK

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24826	55194	A	24964	208	1903	YLAIKTFRCLHDFFTDEQLSRA VWYIGKRAIAAAQTKLPFAFGL PGAKHILFRGHCSSESDVQQLAA ESGDDRSVVIGVGGGALLDTA KALARRLGLPFVAVPTIAATCA AWTPLSVWYNDAGQALHYEIF DDANFMVLVDPEIILNAPQQYL LAGIGDTLAKWYEAVVLAPQP ETLPLTVRLGINNAQAIRDVLL NSSEQALSDQQNQQLTQSFCDV GDIIAGGGMVWGLGDRETRV EAAHAGPNGLTGLPQTEKFLH GTKVAYGILVQSALLGQDDVL AQLTGAYQRFHLPPTLAELEVD INNQAEIDK VIAHTLRPVESIH LPVTLTPDTLRAAFKKLIQGLIS AEQLAQALAEQNGVAWESIDA WQIPSSLIAEMPASVALHYAVL PLRLENDELIVGSEDGIDPVSLA ALTRKVGRKVRYVIVLRGQIVT GLRHWYARRRGHDPRAMLYN AVQHQLWTEQQAGEIWRQYVP HQFLFAEILTTLGHINRSAINVL LLRHERSSLPLGKFLVTEGVISQ ETLDRVLTIQRELQVSMQSLLL KAGLNTEQVAQLESENEGE
24827	55195	B	24965	31	205	
24828	55196	B	24966	69	402	
24829	55197	B	24967	1	721	
24830	55198	A	24968	1	1703	
24831	55199	A	24969	2853	2889	LIIGLDLPAVSAIFQRALRFTHV GIADGGAYVVQR/HRPDEPRRR CCSE
24832	55200	A	24970	297	473	
24833	55201	A	24971	1179	2148	CQVLRPRTKRLNVFLHRMQH QWRQREL VHNMCFVIACAKRK RAPFVQAAEEVVRPGQHDDEF LAIWQTGSGTQSNMNMNEVLA NRASELLGGVRGMERKVHPND DVNKSQSSNDVFPTAMHVAAL LALRKQLIPQLKTLTQTLNEKS RAFADIVKIGRTHLQDATPLTL GQEISGWPA SRSGTGSWRYS GQYWKYPSGVCASRSKMNWYST RASDGGHASDAVRTAQAADRE LRAPVRDELNASITSKTRLAEST SLAEWVKASPHDDDKPILLPGE WEVNTRRERQKQGIPLDAGSW QAICDAARQIGMPEETLQAFCC Q

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24834	55202	A	24972	166	365	NPFSNSPWETYPVAFIPLALFM GIYLRYL RPGRIGEVSVIGLV/SP DFRHYLWRLGGRKSDLGTVL
24835	55203	A	24973	83	362	KPPCFLQASVTCWLRLPFASMI LPPCACS*ST*ESIRPAVVGP EGITFRRFGRTRVVNRMIFDVL RHLFTVIHPLFQFGVITYITDDN
24836	55204	A	24974	584	853	
24837	55205	A	24975	1	3017	MSQDPFQEREAKEYANPIPSRE FILEHLTKREKPASRDELAVEL HIEGEEQLEGYARVLAPESGILI MRPTLTMPALTKFVDGTGPVW TGNLFPFLFITIACGAVSGFHALI SSGTTPKMLANEGQACFIGYGG MLMESFVAIMALVSACIIDPGV YFAMNSPMAVLAPAGTADV ASAAQVVSSWGFSITPDTLNQI ASEVGEQSIISRAGGAPTLAVG MAYILHGALGGMMDVAFWYH FAILFEALFILTAVD
24838	55206	A	24976	3	206	EPDFLPL**RRNHEQNYRDGKC TGSYRSLRTGR*SGQYDHHLRS DPGKSENGRSTGRRRCTGTSVA G
24839	55207	A	24977	3	982	GDAEPFVFLPRRKDHEYSLDH YQHRFYLRNHRHGKNFGLYRT RMRDEQQWEELIPPENIMLEG FTLFTDWLVVEERQRGLTSLRQ INRKTREVIGIAFDDPAYVTWIA YNPEPETARLRYGYSSMTTPDT LFELDMDTGERRVLKQTEVPGF YAANYRSEHLWIVARDGVEVP VSLVYHRKHFRKGHNPLL VYG YGSYGASIDADFSFRLSLLDR GFVYAIVHVRGGGCKINLVVD NGKIVRAEAAQGKTNQGTLCCL KGYYGWDFINDTQILTPRLKTP MIRQRGGKLEPVSWDEALNY VAERLSAIKEKYGPDAIQTTGSS

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24840	55208	A	24978	1339	3640	SPLSTAGISICGPLLITDVDLGT TVAGIKGMIAITGEGTTEWNSV MVAMLLTLIPPVIVLVMQRAF VRGLVDMRNKMAGLKLQAVT KSWDGKTQVIKPLTLDVADGE FIVMVGPSGCGKSTLLRMVAG LERVTEGDIWINEQRVSELRLIG YMSRKMGGGKNRREPHIDVKR GIFGLSITPEFSEPLAEDFLSRRQ YGIRFRNLETGNWYPELLDNVE PSFVWANDSWIFYVVRKHPVT LLPYQVWRHAIGTPASQDKLIY EEKDDTTYVSLHKTTSKHYVVI HLASATTSEVRLLDAEMADAE PFVFLPRRKDHEYSLDHYQHRF YLRNHRHGKNFGLYRTRMRDE QQWEELIPPENIMLEGFTLFTD WLVEERQRGLTSLRQINRKTR EVIGIAFDDPAYVTWIAYNPEPE TARLRYGYSSMTTPDTLFDLDI DTGERRVFKPPE/V/PGFYAA/SY RREPRW/IVSADGVKYSFV\APR QHFRRDAPVLSFLLFSDRAPFR NNGPRVLLLGYYHPELLGVT YSQLSVHEARPKPLPIPHSRHRH VPTRNEMAQEKERPAGSQSLFR GLMLIEILSNYPNGCPLAHLSEL AGLNKSTVHRLQLGLQSCGYV TTAPAAGSYRLTTKFIAVGQKA LSSLNIIHIAAPHLEALNIATGET INFSSREDDHAILIYKLEPTTGM LRTRAYIGQHMPLYCSAMGKI
24841	55209	A	24979	1	248	
24842	55210	A	24980	839	1625	PDAFILTTKPAGAIPTSTSITRPI FCPSFAPCENATPAAET/HQRNT RPEWRFTFAFFLFAIFRNAVNT VTMSIRKGIGVHHNAANLVPW MTKFFQRFQIAFQSRGAVFHQH HHAGYAGQRGKTALAEQRLVF GFGINKQMRAVPLIGEVYQFSG *CQRQSFTADGFTDSNAFNNIS GNSTARDKLFIAGYGNRYFHC GVNAQIIFMQELGDFRHFVIF/A QKGNEYHGDTRISPGRRRGHH PLGALRLAASVERSGNGHRA
24843	55211	A	24981	2538	2864	GSSLINSKVMPSF*QQNRKFAY KRAGVATDEFHAESFVRGRAP MKRKL*LFMQLGGDVIQPFDFG IAGNTVYRCQQLAVGDAVGKI LHNRYAFRQQSTVIQQQCRHLP
24844	55212	A	24982	1	1281	

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24845	55213	A	24983	1	2180	METLNLYADLRSVTGEALLLL DEPGVGVDPISRRELWQMVHE LAGEGMLILWSTSYLDEAEQCR DVLLMNEGELLYQGEPKALTQ TMAGRSFLMTSPHEGNRKLLQ RALKL PQVSDGMIQKSNIVGI KDTIDSVGHLRTMINTVKSVRP SFSVFCGYDDHLLNTMLLGGD GAITASANFAPELSVGIYRAWR EGDLATAATLNKLLQLPAIYA LETPFVSLIKYSMQCVGLPVET YCLPPILEASEEAKDKNRPLVD LEHAALQVGKGIIPPLREYGAS EVRSVTRAFNHMAAGVKQLAD DRTLLMAGVSHDLRTPLTRIRL ATEMMSEQDGYLAESINKDIEE CNAIEQFIDYLRTGQEMPMEM ADLNAVLGEVIAAESGYEREIE TALYPGSIEVKMHPLSIKRAVA NMVVNAARYGNGWIKVSSGTE PNRAWFQVEDDGPGIAPEQRK HLFQPFVRGDSARTISGTGLGL AIVQRIGDNHNGMLELGTSEGR VLSIRAWLPVPGTRAQGTKE GAREDAVEFFAKLGFVNQGEIT TPTTTPIRHFLMIKPVATLDDIL HRGDWCAQLQQAWEHIPLSE KMGVRIQQYTGQKFITTMPETG NQNPHTLTFAGSLFSLATLTGW GLIWLMLRERHLGGTILADAH RYSKPISGKPHAVADLGALSGD LDRLARGRKARVQM QVEIFGD
24846	55214	A	24984	875	1150	
24847	55215	A	24985	1507	1974	
24848	55216	A	24986	1	1006	
24849	55217	A	24987	1491	1703	RECRYATNGKNNGCCRSAGSD FSSRLRYVR*PFIYTQ*SCGIGH CPGTDIRAKIRRTARFIKNYGTY CPS
24850	55218	A	24988	1	1758	
24851	55219	A	24989	1773	2165	PSRGVEVN SGWNWQATNRRVI RNFDDLDQLIIPGTARNAQTCIF NFVTVTMTLNNCRRIVQLANQ/ DYRQPTGTAVAETHGTAEIALL ATNFNVAVFIAPLGNQRHNRVL TVWHKFRRVGVLVHVGNMASVI N
24852	55220	A	24990	1	141	SPGKIRPVIAAAMKQIKEFMSP DSDFFRYMKTPTSATR*YND CG TGQ

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24853	55221	A	24991	1430	1933	PIIVCMGSLTMPDSACMAPFPPS AVRRWNSSFPTFSAHTSSPCA CYPRCYRTVKGVL**HHR*W/V LISTPGRGAYAASKYALEAWS ALRMELRHSGIKVSLIEPGPIRT RFTDNVNQTQSDKPVENPGIAA RFTLGPEAVVDKVRHAFISEKP KMRYPVTHGDLWR
24854	55222	A	24992	1318	4265	LAIVALFLDLQNHIFSKGFWPS DKFYAAKVEEQNRHQRYHGT SYNLEPDIKSSPGGLRDIHTLQ WVARRHFGATSLDEMVGFGFL TSAERAELNECLHLWRIRFAL HLVVSRYDNRLLCVHPTLLTTL DIHGEAQIWRREVSSRYGQYPK AQAAQPDQLMSDYFFRVSLAM QNKTLFLSLDDTLVNALQTLN KTRPAMVDVIPTDGIVPLYINPQ GIAKLLRNETLTSLPKNLEPVFY NAAQTLLMPKLDAL
24855	55223	A	24993	1	454	MGFDDTRDRALFEDSAMSQQP TVPDRLRWLLQTFKYQKNIRI* STPRKKPMRHSIWNWGSRRRC WSNPKRTFMSISVRGNMAAIM SFHTSAVMRSHCSILTTIKSRW ATLNTLILR
24856	55224	A	24994	65	330	
24857	55225	B	24995	1	1998	
24858	55226	A	24996	1175	1877	QQVPQKGPGRAKRHLHAAGW HWHQRDRCPPEKNVRQ*RRYR AVRFIII
24859	55227	B	24997	1	3117	
24860	55228	A	24998	1888	2412	ARFKHVG DGT VTHRLFRRAAQ IVRVV*RAVSHRQHFTGVDIHQ HGATRFSLVKGHRIVQFAINQR LQAFINTQRQVVRSLAVSRRNI FNYATIAVFTHNALTRLPGKPI ETLLNALNPLTEHAARDLEDSP VRITAYIEDVDALAQAGADIHAI DGTDRPRPVVETLLARIHH
24861	55229	A	24999	1	2457	

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24862	55230	A	25000	1	3019	MAALRQSFWSQLFDRVHIGLD FFDASINRIA AWVIGTRNMKKA LLRALLEPTAELRNWKRRITL RVWHCWKSRNRCRGRRSGKCI ANVTIRQQDHQIETVFINQLH ERMFPFVLFAERLSGDEDLGL KAPILEALNDLGYEKPSPIQAE IPHLLNGRDVLGMAQTGSGKT AAFSPLLLQNLDPELKAPQILVL APTRELA VQVAEAMTDFSKHM RGNVVALYGGQRYDVQLRA LRQGPQIVVGTPGRLLD
24863	55231	A	25001	60	545	PSPFTAGASMAVERSTG\HEGE LVLETLVIDGDENT/CAGTRRSL RANA*CLFHPFRAGAEKLAEEV WFCRYPHCGCEQNTTTEEQR TEWMVTESLADFLDPHDPGKT VEGYAPKRARNRNRADHRQ RLRHRTRKKQTHGQRRRHRPE PAQRQPQTGTDD
24864	55232	A	25002	1410	1575	
24865	55233	A	25003	200	691	
24866	55234	A	25004	1336	2028	
24867	55235	A	25005	1	345	
24868	55236	A	25006	671	1204	RTSDKLPFCRRSRMENLARFLS TTLKQLRQQRGWSLSRLAEAT GVSKAMLGQIERNESPTVATL WKIATGLNVPFSTFISPPQSAT/P SLFPYDPQLCFEHLAIQMASGAI SESTPHEKGVIEHVVIDGQLD LCVDGEWHTLNCGEGVRFAAD VTHIYRNGGEQTVHFHSLIHYP RS
24869	55237	A	25007	2251	2466	
24870	55238	A	25008	181	626	WQNFDTCGGMDLKDLDALR FQQEALNLRAQRQEVLAANIA NADTPGYQARDIDFASELKKV MQRGRDATSVVALTMTSTQHI PAQALTPSTAEQYRIIPANPSL DGNTVDMDRERTQFADNSLQY QMSLSALSGQIKGMMNVLQSG N
24871	55239	A	25009	57	278	
24872	55240	A	25010	171	532	KPVQFAIADGNNQPLALLNIHL PVMMLAIAHGPLLPAPPELLV LFDD/PLSSRVLLINAFSGGSDT AMRRAGKGAPAFLLPELPIITV VSPFLPQSSPRRKPIMSKRIPSAV NQRNPRQ
24873	55241	A	25011	1	648	

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24874	55242	A	25012	158	514	VLQLIKAVWTQRTQKPSWLHP VDSAPGLQMELPASVPCTCTP QPLGGRWDWALWSRGWRLLR RLGPHRSPPRS*GSGLWPWPAQ KGAPIVQRWAKGLLKCHQSGS PGRGGAESERGL
24875	55243	A	25013	1	693	
24876	55244	A	25014	119	304	DRRRCACHKITVIPKRMTIAGIRL PPQTVNI*LGNFLRALIASTAGI MTAQMVVAHSPAPPIP
24877	55245	A	25015	361	540	
24878	55246	A	25016	191	446	AKRRLGVYDADCCSIDKTQSL ACTTRNCGAYSKCLCGKYAKP VGGIPQLQESHVR*CCNVMEL SPCSDFT**HPPGAVSQPQT
24879	55247	A	25017	1	2259	
24880	55248	A	25018	1	1170	
24881	55249	A	25019	3	1240	
24882	55250	A	25020	1	1259	MAGPRYPVSVQGAALVQIKRL QTFAFSVRWSDGSDTFVRRSW DEFRLKKTLETFPVEAGLLR RSDRVLPKLLGQASLDAPLLGR VGRTSRGLARLQLETYSRRL ATAERVARSPITITGFFAPQLDL EPALPPGSRVILPTPEEQPLSRA AGRLSIHSLEAQLRCLQPFCTQ DTRDRPFQAQAESLDVLLRHP SGWWLVENEDRQTAWFPAPYL EEAAPGQGREGGPSLGSSGPQF CASRAYESSRADELSVPAGARV RVLETSDRGWWLCRYAGAGPE ELDTSARNAGALTRREIRDA TLLRLGLAYGPGGMSLREVT WAQLHDVATLSDVALLKRLRN AADWFGILAAQTLAVRAAVTG CTSGK/QIASCRWNSNQCARGR QR*MATTYGI*SSYLSVH*F*AN RQQR

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24883	55251	A	25021	803	2061	AKPAARGGILAAPVRDTLFLYF RLKKNQRQEGFINTYPWPKKP GIFYMCVPIKGANAQDVAAFC VTARGRQNCLWESIARGPALIN NRGAARGRCNDRVVEVDHGFA VLTFNFQGVSPGEFTQTVDHFD FAAFRHTSQTTGQLIDHFLFPGT NLVDIGFRFAEDDTVFSQRFGF FDNFCYVQQCFRRDTADVQAN TAKGVVTFYDYGFTYVWKV LDPGSEVVAEAGDGASIDLAH RLDIDVILLDLNMKGMSGLDTL NALRRDGVTAQIIILTVSDASSD VFALIDAGAAGYLLKDSDEVL LEAIRAGAKGSKVFSERVNQYL REREMFGAEEDPFSVLTERELAD VLHELAQGLSNKQIASVLNISE QTVKVHIRNLLRKLNVRSRVA ATILFQSAAFRSRFRRTSDNV
24884	55252	A	25022	1	1569	
24885	55253	A	25023	2151	2709	YLREASETARRQFTLPVILYNF RDLTGQDLTPETVTRLALQEN IVGIKDTIDSVGHLRTMINTVKS VRPSFSVFCGYDDHLLNTMLLG GDGAITASANFAPELSVGIYRA WREGDLATAATLNKLLQLPA IYALETFFVSLIKYSMQCVGLPV ETYCLPPILEASEEAKDKVHVL LTAQGILPV
24886	55254	B	25024	1	1201	

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24887	55255	A	25025	1	2209	MIGEIRDGETAEIAIKAAQTGHL VLSTLHTNSTCETLVRLQQMG VARWMLSSALTIVIAQRLVRK LCPHCRRQQGEPIHIPDNVWPSP LPHWQAPGCVHCYHGIFYGRTA LFEVLPITPVIRQLISANTDVESL ETHARQAGMRTLFEENGCLAVE QGLTTFEELIRVLGMPHGDGAA MDREENELGVSCIAVPVFDIHG RVPYAVSISLSTSRLKQLYAGLP VWCDGSRFFAQKARAIKCKQW GYVGAKSRQRWLFYAYDRLRK TVVAHVFGERTMATLGRMLSL LSPFDVVIWMTDGWPLYESRL KGKLVHISKRYTQRIERYNLNL RQHLARLGRKSLSFSKSVELHD KAAGGVPVLVRELLKAGLLHE DVNTVAGFGLSRYTLEPWLN GELDWREGAEKSLDSNVIASFE QPFSSHGGTKVLSGNLGRAVM KTSAPVENQVIEAPAVVFESQ HDVMPAFEAGLLDRDCVVVVR HQGPKANGMPELHKLMPPLGV LLDRCFKIALVTDGRLSGASGK VPSAIHVTPEAYDGLLAKVRD GDIIRVNGQTGELTLLVDEAEL AAREPHISELSAFTFGTGRGYS AFGVKCPFRKRALSDPCYAMR EVADFLINKGVDGLFYLTGGGE FSQMNTAQRMALAEAAVTIVD GRVPVLIGVGSPSTDEAVKLAQ HAQAYGADGIVAINPYWVKVA
24888	55256	A	25026	1	3395	MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKYIPCSWLGRINIVKMAILAK VIYRFNAIPIKLPMFTFFKELEKT TLKFIWNQKGAASRSNPEPKNK LEDHITNSTIYRLSTKSCSVSGL KQTLLESEALTSYSHRVFSAW DFGLCGDVHVRLRQRJILYELK GQVPALLDDGTLLTEGVAIM QYLADSVDPDRQLLAPVNSISRY KTIEWLNYIATELHKELKFSFH WSTTSKGLGM

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24889	55257	A	25027	145	681	FNGATQRIFDARGK PSTYIGSIQ HVNADVDQRATTLQFFIGK DTP AGNAAATQGAGGGNVNLSQN AVGHLFTQLLRIERKTMVKVV GQH LAQFARGIDISRACYHMA ARFQCHQGMFVMKTVR*ADA NHIRFHCQQHGLRIVPHGCIPVF FCQRLPLGKAAVTDSYQFQIRC GCSSTKH
24890	55258	A	25028	696	953	LSGLCSVRRAYPGGRSCPGVP* FVGLVARRPGGG*GSCFVLLHP QRS GTGGCL*QPPFGAGAGRK IRECIRVGRSAGHAAGGET
24891	55259	A	25029	3	506	RGKPSTYIGSIQHVNADVDQRA TTLQFFIGK DTPAGNAAATQGA GGGNVNLSQNAVGH LFTQLLRI ERKTMVKVVGQH LAQFARGID ISRACYHMAARFQCHQGMFVM KTVR*ADANHIRFHCQQHGLRI VPHGCIPVFFCQRLPLGKAAVT DSYQFQIRCGCSSTKH
24892	55260	A	25030	291	560	
24893	55261	A	25031	63	404	
24894	55262	A	25032	660	1073	LSHECSFWLTNQLVSPRAQTVS GELQPAYAHGVLCRQYPSAFE KASETPQSSNPCSSYTIHPTVE NFQTCRNQHLSKGCLINAGRA GPSPGTGGWGELEVA AAAARLQ GA WKRHLQSSRPPGQALFASPP *WTGSVQ
24895	55263	A	25033	272	511	GSDTALPSAIAAPLLAAMAWLP PRERGTLAH/QVLEHYQLAQLP VSAL/QMPLHCPPQAIAHHQQL/ EQQALASLQNWGVFHV
24896	55264	A	25034	1	3300	
24897	55265	A	25035	1117	1376	PPPIGLTYSSSASPLSLFCTVRKP FSRSCW*QTNSNPISSCP ELVTP SE*L*PRRSIRLDSL SAVRGFAS RIWLSSAITFPGSLA
24898	55266	A	25036	207	427	DEHLQQRKKPLFLNYGRTEQA SVK*RISWVQNPERSSLC*GILA A*NPMSVSGL*LT*HCLSARRY ELVCQPK

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24899	55267	A	25037	2012	2547	LKFARPKLWGIFRNRQYHHML ER\RSQAIDAPALDRGAALGAL MRLEHPNASAEAAALTMLAQLS PAQSGEALHGLLALARHQLAC QPAFIAGFSSHLNQLSEADFINA LPDLRAAMAWLPPRERGTLAH QVLEHYQLAQLPVSAQLMPLH CPPQAIHHQQLAQALASLQN WGVFHV
24900	55268	A	25038	1	150	DKASRGRSRQQS/CAVLQPLLVI PRQT/WV.WSGPPANSSRPGEED PDC*KEN
24901	55269	A	25039	1	150	DEASRGRNRQQS/CAVLQPLLVI IPRQT/WV.WSGPPANSSRPAEEE PDC*KEN
24902	55270	A	25040	96	389	PCLSP*LYPSGVHKSTFIYGFYN T*PCTSQSLFWQHSC*GSITSSS YFYLLPEEGTGSNLCCSAASAG DTQANRVWSGPPANSSRPAEE GHDCWKEN
24903	55271	A	25041	1181	1364	VSLGNIKFRQTGAPLGQSFQRK EQSAIFAVLQPLVIPRQI/WVW SGTPADSSRPAAEGPDC*KEN* RVNRQPTWEKIFPIYPYDKGLI SRIYKELKQIYKKKIKPPHQKV GKGYVFSKEDIYAANRHMKKC SSSLAIREMQIKTTMRYHLTPA NRGIEIINCPFLDDAASCIDPTYS SNIFPPVNLWSGLPMKPKEVKI KRQKKEHLLKDRDFSQEPIMA LRTVILEILMEKEMDNSQRECIK DILTKHLVELSILARTFKNTQLP ERAIFQIKQYNSVSCGVSEWQL EEAQVFWAKKEQSLALSILKQ MIKKLDASCAANNPSLKLTYTE CLRVCGNWLAECLNPAVIM QTYLEKAVEVAGNYDGESSDE LRNGKMKAFSLARFSDTQYQ RIENYMKSSFEFNKQALLKRAK EEVGLLREHKIQTNRCPSGTKL PEEGTVSNLCCSAASTGDTQAN RVWSGTPADSSRPAAEGPDC

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24904	55272	A	25042	42	963	VQEGCVRPFCCRSAGVCWRST PDSVCLGITSGGCRTAKTAACS FLWKLCPRGTPARCQVECSYTR CLSISLLGGVSQAGGTRVRDPL EEEVCPLAELERCAGRSVAVFR ASRQEHLRLLKLTSPPLPPGA LSQGDGSFIYKPLTGVA AFLSD ALPKRRNLERQSGYSTFEELCF QKRTWGRDAVRISDLLLGDHS HFGKCPISRLEAENMPVVSEL SAAGCSTEVNHFVVGIIWQKGK CSKYTAPSKSSVPVSSTRGHVHI TVQNPTLVFPVVGKLNIDSPIGDR NIPVLTAGNCKTLGDLRSFPHN
24905	55273	A	25043	98	352	
24906	55274	A	25044	3	414	PEEALCALAELERCAGRAALF RAERQKRLRLLKLHPQPPLPPG ALSQRDGS\LSISP*LGLRLSFR DALPREQFYRLFTDRSDRVPEN SVTDVCHIESKMEPLRLGP/SNV SIMRPSLVCSFTTLVFISSNAQSS LVA
24907	55275	A	25045	2	1544	STTRGSPPQEARQYRHNQAYA YSIQGDGAEDDDERIVRFHTRL PVFMLPPTPRKTSWIVAPVLEV LARAIRHETEIQGIHTGTEDVPV SLFADDMIIYLDNLKDSSRKLL EVIRDFSKVSGYKINVHESVAL LYTNNDYAENHIKNSTPFTIGY VLAFFVMVIAVSCVRLLYAHN CTQHTSLKHKCQAWVTTVDA AAFMTQATREERRIAYSAPGGY FFHILEVLARTIRQEKEIQGIQTG KEEVKVSFLFADDMIIYLENLKD SSRKLEVIKEFSKVSGYKINVD SRGSPTDLVIYKEEIVFLIVPKA KKS KIKVLASDPLCYAATTWR MTIIAGLPVEYNDRFIRGIAVFA PWRKTPGIYHQSHDPLCYAATT WRMTIIAGLPVEYNDRFIRGIA VFAPWRKTPGIYHQSHGACLG RRSRTITVVDAQPVMDMDPT CSLFTTGQCLGEPDLLASARRL QFFSHQYSIAVLMANARGNSA\ LWDNYGGLIVRADRGSLLLVG

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24908	55276	A	25046	1	1228	MLQSNRTAASHSPSIQPAIQPAI QPASQLSIHNLWTQFRHSTKIPV EWNNGEWLNGRMPEDHHEWQ CNYQNVQQFIDEGNYTSGDNH TLRDPHYVEDKGHKYLVFEAN TGTENGYQGEESLFNKAYYGG GTNFFRKESQKLQQSAKKRDA ELANGALGIIELNNDYTLKKVM KPLITSNTRETVDNFNGKHIHVR GAKLLFPAIQPPPLYFGGSSD VAQELAAEQVDLYLTWGEPPE LVKDFIEQVRAKAAAHGRKIRF GIRLHVIVRETNDQAWQAERL ISHLDDETIAKAQAFAFRTDSV GQQRMAALHNGKRDNLEISPN LWAGVGLVRGGAGTALVGDG PTVAARINEYAALGIDSFVLSG YPHLEEA YRVGELLVPLLDVAI PÆIPQPQPLNPQGEALRKK
24909	55277	A	25047	1	1075	MTIKGEQAKKQLIAAALAQFGE YGMNATTREIAAQAGQNIAAIT YYFGSKEDLYLACAQWIADFIG EQFRPHAEAAERLFAQPQPDRA AIRELILRACRNMIKLLTQDDT VNLSKFISREQLSPTAAYHLVH EQEAEHRFAMGELPDEVLEICQ RLAKLTEMRLGLAELFLNDLSE KTGSHDIVRLHRLILQMNRALG MFEAQSKLWRLASLAQSSGAP VTKWATREEREGQLHLWFHCV GIRVSDQLERLLWRSIPHIIVTS ATLRLNSFSRLQEMSGLKEKA GDRFVA/SGFP/HLTTANRAKLL FPGCALSPLSTTKSSILPKWRPF SVSRWRAKNISVCWYCLPADG RCSAFSTM
24910	55278	A	25048	530	642	LKTLW/PAVQEPVPHRYHGATV FRIMQTIFIKICRLLL*GTAGHF VCGITACHAAEAHRLTVQPVP RILDQRRPAQLHSRQVTAIRQ PLHRRQAVRRDAVCQPLLVC VRLMLPQQFPRLRVLHRLAFA GQAAFIVIAIVDGNTVAFAQVA DVCQPAVAIILPLLCEFSQQVI MITLRPPVKAALLYQPVRQIVT EDAVAAVQEPVPHRYHGATVF RIMQTIFIKICRLLL
24911	55279	A	25049	1075	1479	

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24912	55280	A	25050	2	588	RWSSLTSSRYGFCRCPEADKE CLHVKSAAAGKKATNVGHYAG WLRTYSPHLAAHRVNFFFGINA HMDQRGPGRLMISCNEACGSA CYSNHSYMRNDKHAVRRADSG RAEGGGPRVKSVIKAPVITPKK KPVVSTLKHWWLMLAWVTCSP LTVL\SPDGEMFDVMEKYAFSA WKWKRLRLAISQATFHALLPE KIG
24913	55281	A	25051	912	1169	
24914	55282	B	25052	1	1665	
24915	55283	A	25053	43	302	
24916	55284	B	25054	116	1534	
24917	55285	A	25055	1	1017	NVQQFIDEGNYTSGDNHTLRDP HYVEDKKGHKYLVFEANTGTEN GYQGEESLFNKAYYGGGTNFF RKESQKLQSAKKRDAELANG ALGIIELNNDYTLKKVMKPLITS NTRETVDENGKHIHVRGAKLLF PAIQQPYPPPLYFGGSSDVAQEL AAEQVDLYLTWGD PADLVNEI VEQVRAKAAAHGRKIRFGIRLH VIVRETND EAWQAAERLISHLD DETIAKAQAAFARTDSVGGQR MAALHNGKRDNLEISPNLWAG VGLVRGGAGTALVGDGPTVAA RINEYAALGIDSFVLSGYPHLEE AYRVGELLVPLLDVAIP\EIPQP QPLNPQGEALRKK

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24918	55286	A	25056	1	2677	MVLNRLLTGLFFGSTPPRCHYD LIGADPDRTIRSVRLYWRHSLN ELISMLPKFNKELTRKLFKLQE MLPFLNLHMSPERMLQRMDS KVVTFTTALMTGLSGAMASVL LLVMTVVFMLEFVRHVPYKMR FALNNPQIHIALHRAKGVSH YLAKTLLSLWTGVVWLGLEL MGVQFALMWAVLAFLNYP NIGAVISA VPPMIQVLLFNGVY ECILVGALFLVVH MVIGNILEPR MMGHR LGMSTMVDGVRVLKD GTDLNQTGSFYLAARPYAEKN GAFIQGVLATFSEADALTRSQR EQSIALLAKTMGLPAPVIASLLE ISQPVSNHPITRLTA EVAALQQ QTADLFYENRLVPKKVDIRQRI WQPTRLEGKQFMSLNMFWFLP THGDGHYLGTEEGSRPVDHGY LQQIAQAADRLGYTGVL IPTGR SCEDAWLVAASMIPVTQR/LKF LVALRPSVTSPTVAARQAATLD RLSNGRALFNLVTGSDPQELAG DGVFLDHSERYEASAEFTQVW RRLQRETVD FNGKHIHVRGA KLLFPAIQPPALYFGGSSDV AQELAAEQVDLYLTWGEPPEL VKEKIEQVRAKAAAHGRKIRFG IRLHVIVRETND EAWQAAERFV LSGYPHLEEA/YRVGELLFPLLD VAIPE/IPQPQPLNPQGEAVAND LSPRR TVAASGDQLLAGAVGFS
24919	55287	A	25057	114	372	
24920	55288	A	25058	2270	2760	TSPIPSQIRQYSIA/VGSTGNLGL SIGIMSARIGFKVTVHMSADAR AWKKAKLRSHGVTVEYEQD YGVAVEEGRKAAQSDPNCFFID DENSRTLFLGYSV/AGQRLKAQ FAQQGRIVDADNPLFVYLPCGV GGGPGGVAFLGLKLAFGDHVHC FFAEP THSPCMLL
24921	55289	B	25059	1	2460	
24922	55290	A	25060	1	993	

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24923	55291	A	25061	332	1349	ILYDSDIYRFSCRSGGHIPIAVIY HLSAKRRTMENAKMNSLIAQY PLVKDLVALKETT/WGFIPATL HGVKGLPYVGLTEQDVQDAH ARLSRFAPYLAKAFPGKWLPTG GIHES\ELGALPAMQKRL\EKEY QQPISGQLLLKKDSHLPISGSIK ARGGIYEVLAHAEKLALAEAGLL TLDDDYSKLLSPEFKQFFSQYSI AVGSTGNLGLSIGIMSARIGFKV TVHMSADARAWKKAKLRSHG VTVVEYEQDYGVAVEEGRKAA QSDPNCFFIDDENSRTLFLGYSV AGQRLK\AQFAQQGRIVDADNP LFVYLP CGVGGGPGGVAFGLK LAFGDRVHGLQA
24924	55292	A	25062	284	1494	RLSLPDMFPPVQQFPVSLHRAF YRYDKSAYYALRIAGIASRLNP RRFSPSILTPERRCVVTLRNDIR RDVLRHNQPRSTASTRQARRR MKSSCWHMPTTSKPQALSHTS NSPTTSISRPNWSYSNVCNRSRT MANLSGYNFAYLDEQTKRMIR RAILKAVAIPGYQVPFGGREMP MPYG\WGTGGIQLTASVIGESD VLKVIDQGADDTTNAVVSIRNFF KRVTVGN\TERTDDATVIQTRH RIPETPLTEDQIIIFQVPIPEPLRFI EPRETETRTMHALEEYGV MQV KLYEDIARFGHIATTYA YPVKV NGRYVMDPSPIPKFDNPKMDM MPALQLFGAGREKRIYAVPPFT RVESLDFDDHPFTVQQWDEPC AICGSTHSYLDEVVLDDAGNR MFVCSDDTY
24925	55293	A	25063	1	333	

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24926	55294	A	25064	1368	2451	PAHAAPGGGC/VRSLACRFLWN MRVTGKSYSTLRRVLSAIWNW RMMRCALTRALVAFRVR/SSVP LAAVLAIYARENGAGTMFEPE AAYDEDTSIMNDEEASADNET VMSVIDGDKPDHDDDDTHPDDE PPQPPRGGRPGLRGLTLRWFSV AAQRSDILDAVTLCLKVAALAT LIALVLGTAAAAALWRRDFFG KNAISLLLLPIALPGIVTGLALL TAFKTNLEPGFFTIVVGHATFC VVVVFN NVIARFRRTSWSLVEA SMDLGANGWQTFRYVVLPNLS SALLAGGMLAFALSFEIIVTTF TAGHERTLPLWLLNQLGRPRD VPVTNVVALLVMLVTTLPLIGA WWLTAKATYLEKLKV
24927	55295	A	25065	1	2072	MSEQLTDQVLVERVQKGDQKA FNLLVVRYQHKVASLVSRYVP SGDVPDVVQEAFIKAYRELTPR RPYLLRAFYEWLLDNQLTPHL VVDVTLPGVQVPMYARDGQI VLNIAPRAVGNLELANDEVRFN ARFGGIPRQVSVPLAAVLAIYA RENGAGTMFEPEAAAYDEDTSI MNDEEASADNETVMSVIDGDK PDHDDDDTHPDDEPPQPPRGGRP ALRVVNVIVAIIFTTKPTAMGIA VRFTTAKGETPAIPDVTTTTAVI GETARASVAKCIGIIITTA VPIV VKPFANISPATTSVPRFFGLPAS SSHTLIGAIIGIGLTNALLTGSSV MDALNLRVTKIFSSLIVSPIVG LVIAGGLIFLLRRYWSGTTKRD RIHRIPEDRKKKKGKRKPPFWT RIALIVSAAGVAFSHGANDGQK GIGLVMLVLVGIAPAGFVVNM NASGYEITRTRDAVTNFAARES EASVIRHSNRFIETINGGRRCSR GITLTLHKLRISAQPLLA VLNR LEQKKPVGLRYDPQAQSLVCLP TQTRTGWNLNGFEVGFRCVR LMIYGRSLEAQATASLAAATG YDSHIFDLFPASASAQIDTDTAV ILLCHDLNREL PVLQAAREAKP FYL GALGSYRTHTLRLQKLHEL GWSVRQETTQIRAPVGIFPKARD AHTLALS VLAEVASVRLHQEE

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24928	55296	A	25066	2	332	AGYSTRTALAIVNKPSSAIPPT SGLASRKRNPNASNDFNGCSRGC GGGGNAGRLNNGSKRSASTPP TIRPTNIAPPAASPKAPPARWN VSSSGSAPAPRRRRANPETQLR
24929	55297	A	25067	1	3192	MNKKFKYKKSLLAAILSATLLA GCDGGGSGSSSDTPPVDSGTGS LPEVKPDPTPNPEPTPEPTDPE PTPEIPDPEP/TPE/PEPTPEPTD PEPTPEIPDPEPNQNGAELSYN TEKTLTIRDSVFYTYTENADGTIS LQDSNGRKATINLWQIDEANNT VALEGVSADGATKWQYNHNG ELVITGDNATVNNNGKTTVDG KDSTGTEINGNNGKVIQDGDLD VSGGGHGIDITGDSATVDNKGT MTVTDPEM
24930	55298	A	25068	1078	1317	
24931	55299	A	25069	135	361	SCSMLAGLCG*GSSSSVSITTCF ALSASTIA*PREPQQALPV*PLA LPNSSQDGTMPKATSIFSSPLCT RCTRPP
24932	55300	A	25070	469	841	RWWKQYAAAGFQCMCATAVS NLTRPVAA*TAAIPESKSPVLPN SPASTVRRS*PVSTMPPIRPGDG DHDPRFKAPSGTPHQPPRAGHS LARRHG*TENCTAA*GQLRTPG DNGTVMSADTITFP
24933	55301	B	25071	1	2922	
24934	55302	A	25072	1	3849	
24935	55303	A	25073	1	2280	
24936	55304	A	25074	672	1045	GAVLSINCRTLSPAAASGENVA TPP/VTSNNNTPIINKPKPLALAE ATGVIIAPKPPSSAAPMASPVTF CAVHKPLIRPNIASGVCVCSIVY CSNELTALNQPN SARQTTPKIHI GIRPNRPMARN
24937	55305	A	25075	650	1465	RKPICAADICQLSASAGYSTRT ALAIVSGLASRKRNPNASNDFNG CSRGC GGGGNAGRLNNGSKVI NVPAAASP*FQATPPVASNKPPI MGEITDPRRTVMVIA PACIKF SRPTSAGVAANSAVTPSDAKKP SHKPSK*IASNDGSGSSALRHSP MKPMPQVPRASKITFLRS*RSA STPPTIRPTNIAPPVSVTESPTCQ VECVIIWICTGTATPSKPRDTIE MKRARNTARNAGCVSAGSSGS SAEVGSSNSKTS GSIASARA IET RCC

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24938	55306	A	25076	156	3092	LNRRWIANIAKLEAEQARKLK KTEKDSLKDEVLHSLLPRAFSR FSQTMWIDTVNGLIMVDCAS AKKAEDTLAVLRKSLGSLPVVP LSMENPIELTLTEWVRSGSAAQ GFQLLDEAEKSLLEDGGVIRA KKQDLTSEEITNHIEAGKVVTK LALDWQQRIQFVMCDDGSLKR LKFCDEL RDQ NEDIDREDFAQR FDADFILMTGELAALIQLNIEGL GGEAQHSGTGSLPEVKPDPTPN PEPTPEPTPDPEPTP
24939	55307	B	25077	61	2118	
24940	55308	A	25078	132	280	RRRAALPERSGPGLDHRRVRH/ GCHVLPTPVTLVKRRKVSRVD AQWKSSV
24941	55309	A	25079	1	1449	
24942	55310	B	25080	110	550	
24943	55311	A	25081	657	805	RRRAALPERSGPGLDHRRVRH/ GCHVLPTPVTLVKRRKVSRVD AQWKSSV
24944	55312	A	25082	756	938	
24945	55313	A	25083	781	1257	
24946	55314	B	25084	1	2727	
24947	55315	A	25085	1	2286	
24948	55316	A	25086	1161	2024	VRSAVWPCLQRDPDCHHNRCG TGGTSRPGPARNPRIEPCVGV RIRNLGVLLYDADAMERAAS T ENEKDLYQRQLDVFLDPNDPK VIEQAIKDGIPLSVIEAAQQSPV YKMAMEWKLALPLHPEYRTLP MVWYVPPLSPIQSAADAGELGS NGILPDVESLRIPVQYLANLLTA GDTKPVLRALKRMLAMRHYK RAETVDGKVDTRALEEVLTE AQAQEMYRYLAIANYEDRFVV PSSHRELAREAFPEKNGCGLPF GDGCHGSDTKFNLFNSRRIDAI DKTEPHP
24949	55317	A	25087	664	1065	VAPEPHHGRKQLCREGLGVFH PTHHITHHLGVSLSLITIFDAQS VHGPDGCGQLDSVAVDNRLV LFHVFSGEAIFMDDLHLLHNGA FS*FSSPEQE*/PRLWRR*CHPL *GFSQSPCSARGRLSPLRSEYIP

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24950	55318	A	25088	434	1663	PAGAFPDIANDFGEKSLLMPGG AVINGDFNNVLPVDLVDPPQV QEFVDHAWYRYPNDQVGRHPF DGITDPWYNPGDVKGSDTNIQ QLNEQERYSWIKAPRWGRNAM EVGPLARTLIAYHKGDAATVES VDRMMSALNPLSGIQSTLGRI LCRAHEAQWAADAIENNYSRN PSQGYSTVPRSPHPKVDPIITKP SGPAGPEMTRKQTQREDRPRSR PSMTTSPTSNLKPSVPAFKGVG YLDSDRIGAADYQPTQDILR TRVKTTGIVETHFTFKNLHFRT EQASVHACYCRLFDVEGQRSE RKKWIHCFEDVTAIIFCVALS YDQVLHEDETTVLSTRIVDGH YSDHSTIACPAFGTYTLLELKE ALSCSTLLHIPHQRSPAGSFLAD NLNCTQAAVIPEFGGF
24951	55319	A	25089	1	1247	MTFGGDQIFESLVYRSAFRHVV SRGSPWYLHTNSDLFVESKKE LIAEHILETFPWNKGLTEIPWG DASGESGAVGLGVLAHVHYHP QRQSLMEKLALNKDAVVLVIS TEGDTDQVIERLESDAVLRGI EDVVTNLDVLERMQPSESLRA VLHTKHLMPNPEVLAAARRVC QVVEEIMARLAKEVRQAFSGV RDRRRRSFIPLARNFDFKSTLRA NLQHWHPQHGLYIESPRFNSR IKRQSEQWQLVLLVDQSGSMV DSVIHSAVMAACLWQLPGIRT HLVAFDTSVVDLTADVADPVE LLMKVQLGGGTNIASAGEYGR QLIEQPAKSIVILVSDFYEGGSSS LLTHQVKKCVQSGIKVLGLGA LDSTATPCYDRDTAALGNVG AQIAALMPGELGSLAWENLLA

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24952	55320	A	25090	1	1691	MGAYLIRRLLLVIPTLWAIITINF FIVQIAPGGPVDQIAAIEFGNA GVLPGAGGEGVRASHAQTGVG NISDSNYRGGRGLDPEVIAEITH RYGFDKPIHERYFKMLWDYIRF DFGDSLFRSASVLTLIKDSLPSV ITLGLCWYFVCRACVVTHALSL WQSASIEVPRTSATAKARKTEP GRQTKRKVRSSQTVAARQRIAT LPHSMTVCNPGLFHSQMADAL AHRYYGFNIAEPWDNGSEAML QRDIGLKSESRLMAGKRCSCL KGECGWSLDMQARVSTCFYVR LLCGTELEDHRICIIDTCDNKCG PQRRYVIKFRELCLVNSTVTLV DQEYELTVTDPELYDGSSQALA GISDLSSIYATCDPGYSCTDRVT LVDVRKRQSKTGPYKEIGRYGI DRNRSPLNPGFRGKPDLMPSQC IACGACACACPANALTIQTDDQ QNSRTWQLYMGRCIY/CDGRCE EVCPTRAIQ/LTNFVLTVTNKA DLYTRATFHLQRCSRCERPFAP QKTIALAAELLAQQQNAPQNR EMLWAQASVCPECKQRATLIN DDTDVLLVAKEQL
24953	55321	A	25091	1	866	

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24954	55322	A	25092	338	2388	CVQEPLITVSWRLFAIPAGMKF SLFLRCLFCFHLAARYLVLLCQ LH/SQGIKVLDFGTGVQSGPSTQ MLAWFGADVIKIERPGVGDVT RHQLRDIPDIDALYFTMLNSNK RSIELNTKTAEGKEVMEKLIRE ADILVENFHPGAIDHMGFTWEH IQEINPRLIFGSIKGFDECSFYVN VKAYENVAQAAGGAASTTGF WDGPPLVSAAALGDSNTGMHL EIGLLAALLHRELNMTVAEIVE REEWAGFRARETAALEAVTAP STVIATGGGILTEFNHFMQNN GIVVYLCAPVSVLEDFRQRTME VLRLAFLSSGILEFFTSLSIALVA VYFGFSYLGELDFGHYDTGVTL AAGFLALILAPEFFQPLRDLGTF YHAKAQAVGAADSLKTFMETP LAHPQRGEAELASTDPVTIEAE ELFITSPEGKTLAGPLNFTLPAG QRAVLVGRSGSGSRYCPYINHR NVRLGPIVTDVPWENSGDKSLP EATAQVISSGSGATKVEDGLGD LNKPVSNNQLVTGIDTPVYNAP SAGSAPFGVLADNMRYPIHLKL KDRLNQTWYQIRIGDRLAYISA LDAQPDNGLSVLTYHHILRDEE NTRFRHTSTTTSVRAFNNQMA WLRDRGYATLSMVQLEGYVK NKINLPARAVVITFDDGLKSVS RYAYPVLKQYGMKATAFIVTT
24955	55323	A	25093	1810	2399	STFRNSDDEPYIVRPVAVAWRD YVPQPARNGLSNFTGNLEEPVAV MVNYFLQGDYQGMVHFTRFF HQHPSGLS*WVAGNIFQILCAN QPVRKRTRDNVQLLHSGRQGRG VFRCSRRLVLTGLVDRFGRTQTF HREAAGEFSGEITGVTDGAWR HFRLVLTTQAQRAEEARQQAIS GGTEPSAFPDTLPVDTEYVMNF
24956	55324	A	25094	1	577	MPVSTAVATVIKTKQVEFQLQ VGVPLYFRLRANPIKTILDNQK RLDSKGNIKRCRVPLIKEAEQIA WLQRKLGNAARVEDVHPISER PQYFSGDGKSGKIQTVCFEVIG CREEPDAEECHGDREQRRVFIR EDGFFVTKDLYPNRRA\GIISTT AVISPSQPPIIAPRVAQSSEPRSA AHALARAIRQSTTV

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24957	55325	A	25095	51	407	TCPIRAQRVETLYDRAYREVFG WNPRGPTGRPNARHTG*SKEG GRTEADETDAADSGQRGMEQR SEMDRKPTGTTGQRSEKPRRTL ECLALHETRIFLPQRKETHSSDA HDMPPGPPML
24958	55326	A	25096	3047	4131	AHSGQMYMPLSSCIRSCILGSV VMTCGFPPQKSAGQKRQKTADC RKRPPQLYTKSLSL/AVKAILAK GYDPVKWRKKDKVLDVLE LESGKYSDGDKHAFDQMLHSI GKQGGDPYLVMAFAYVEA QKQVDVLYRDQEA WTRAAILN TARCGSSMESKRLDNAALAAGI SPNYINAHGKPPQSISAETKRRL DAMHQRATATKVA VTPVNV VYTSGKKMPMVVEGSGEYSW LLTTEGTQYKGHVTGGKAFN LPTKLPEGYHTLTQTQDDQRAH CRVIVAPKRCYEPQALLNPKL WGACVQLYTLRSEKNWGIGDF GDLKAMLVDVAKRGGFIGLN PIHALYPAIRRAPAHTARLLAV
24959	55327	A	25097	524	697	AANWWWKSRRNWR*KMTAM LDRIISHIIRTVRMSGSVAVTRAI AVPGLLLLLLIATA
24960	55328	A	25098	1	1938	
24961	55329	A	25099	33	226	

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24962	55330	A	25100	1	2314	MDRAGDGPRLPSGPTDVYGDT VYLRLDPGNHGGKTTNGPLRFVP LLPFGQQVFPRVTPNFWNPVSS AALPARYMQTIENAAVWAQIG DKMVTVGNIAGQIIAVEPTAA SYAFNCGFGKAFIDKGHLEPV QGRQKVEDGLGDLKPLSNQN LVTWKDTPVYNAPSAGSAPFG VLADNLRYPIHLKLDRLNQT WYQIRIGDRLAYISALDAQPDN GLSVLTYHHILRDEENTRFRHT STTTSVRAFNNQMAWARVDRG YATLSMVQLEGYVKNKINNRA TEREELRVSKITVLILGVIAIILG VLFENQNIAMVGLAFAIAASC NFPILLSMYWSKLTRGAMMG GWLGLITAVVLMILGPTIWWQI LGHEKAIFPYEYPALFSITVAFL GIWFFSATDNSAEGAHLRPIRR KKVYRFNYLRSDGPYQGWVSE RLILRAISPGCSKLVHFPTLFDS LYRTLKAGEKSGLLAPVLEKL ADYNENRQKIRSKLIQSLIYPC MLTTVAIGVVIILLTAVVPKITE QFVHMKQQLPLSTRILLGLSDT LQRTGPTLLATVFIVAVGFWL WLKRGNNRHRFHAMLLRVALI GPLICAINSARYLRTLSILQSSG VPLLDGMNLSTESLNNLEIRQR LANAAENVRQGNISHLSE/QT/ AIFPPMMLYMVASGEKSGQLG TLMGAQSHWECATVNAASRIR
24963	55331	A	25101	20	825	GFPRSRSCYASCTACRTHYSA EK/QLTRALAKLARATSNEKLS QAFHAHLEETHGQIERIDQVVE SESNLKIKRMKCVAMEGLIEEA NEVIESTEKNEVRDAALIAAAQ KVEHYEIASYGTALAEQLGY RKAALLKETLEEEKATDIKLT DLAINNSFYKEDIFMNRJIEHYH DWLRDAHAMEKQAESMLESM ASRIDNYPELRARIEQHLSETKN QIVQLETILDRNDISRSVIKDSM SKMAALGQSTADTTKNSTHRQ SNTRQGN
24964	55332	A	25102	2	269	GIIGLHLQQQEAVAVAIVRGAT RMLFATLVAVAAGERHYQRW ADC*CAAAG*NVVTVESRTAA ASSHYVGVSQRSHITAVISAPV DVPW

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24965	55333	A	25103	607	727	RQAVYRG**TAGQRANLLLLR RHSACALAAGESQSSCPAG
24966	55334	A	25104	465	574	
24967	55335	A	25105	3	636	AHTSGFGDKESEKVSPQRKLHA MSRTFFWENLRCHGNLGSPTY AFQISAI DRVNFALVVGLHLRH DYRNEKLGRSGRHYQAPVGNR SSADGMHRDPCSQLDICCILLG AGSIYGLYRYIEPQLPDVATLK DVRLQIPMQIYSADGELIAQYG EKRRIPVTDGPVMWFFPMIITC VKGNFALNNQFREDMLNYNTE GIYGKNVNFENNKQT
24968	55336	A	25106	434	1205	
24969	55337	A	25107	368	532	
24970	55338	A	25108	722	934	
24971	55339	A	25109	82	420	ARADPHRAHTAGVNGVNARLR IFNADTCLRRHAQPCTGGEKDF RVRFRVFKLGSIRAEGEKLAQL QRR*NRRIQGDRSQPNRD/RA VPEDLPSKERMPGRTALTVNSR SEWT
24972	55340	A	25110	618	788	WYPCCRNWRYLAGGDSGFCR GERA*R*IASQSGVT*AVATVV FPSVLAGLRITGHS
24973	55341	A	25111	186	1198	QKTAVSTSITALTRWGS/SRA/G KRGAVLRSRVTRGKYHYPSSW RETSSSVQNAPLMRQIKEVFLAI RIEQLLTKDEILELYLNKIYLG RAYGVGAAAQVYFGKTV DQL TLNEMAVIAGLPKAPSTFNPLY SMDRAVARRNVVLSRMLDEG YITQQQFDQTRTEAINANYHAP EIAFSAPYLSEMVRQEMYNRY GESAYEDGYRIYTTITRKVQQA AQQAVRNNVLDYDMRHAIAA RHYVLWKPTANIRARYKAQGI ELPAVVPAGPDNPMGHHAIRL AA YGGVYLLHGTNADFGIGMR VSSGCIRLRDDDIKTLFSQVTPG TKVNIINTPIKVSAEPN

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24974	55342	A	25112	1087	3289	RLRSCGAQKNTFCNAAAGCRW RTTLSKMGGLLIAADLQDPVQ DMEMWQFHPTGIAC/AGVLVT E/GCRGEGGYLLNKHGERFMER YAPNAKDLAGR DVVARSIMIEI REGRGCDGPWGPHAKLKL DHL GKEVLESRLPGILELSRTFAHVD PVKEPIPIPTCHYMMGGIPTKV TGQALT VNEKGEDVVVPGLFA VGEIACVSVHGANRLGGNSLL DLVVFGSARQVLHLQESIAEQG ALRDASESDVEASLDRLNRWN NNRNGEDPVAIRKALQECMQH NFSVFREGDAMAKGLEQLKVI RERLKNARLDATSSEFNTQRVE CLELHNL METAYATAVYATFR TERRGAHSR\FDFPDRDDENWL CHSLYLPESMTRRS DYTLEA DEGRDMMLLDALIQLEKDPS LSFRRSCREGVCGSDGLNMNG KNGLACITPISALNQPGKKIVIR PLPGLPVIRDLV VDMGQFYAQ YEKIKPYLLNNGQNPPAREHLQ MPEQREKLDGLYECILCACST SCPSFWWNPDKFIGPGSLLAGY RSGLIAGIPKCSARYLSGEKRSV AWQQIAAEIGISID AQFNESLKG ISRDESLRRILQHGGKEGDFNSQ ERAQLAYRKNLLYVHSLRELT VNAVLP GIRSLLADLRAQQISV GLASVSLNAPTILAAELREFFT FCADASQLKNSKPGPGIFLAGC
24975	55343	A	25113	47	630	VGWETSFAQIRSRFLRIRFCRAY SSTLFVSAANPTT*G/QMV F*CG NGAQHKNILLLYRSIHGGFHFQ RGHHINTFNKRWR R**NRT*YQ RDVRATTGSGGGDRKTHLAGA VIRDITHRIERFTRRAGGNHNV QMFQVVDGRKCATAISTVLDM FGDHFGRQKIASCQRWLAKTIR TVQQPICKNIVRKPGCHSLA
24976	55344	A	25114	731	829	

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24977	55345	A	25115	2	3744	RLPFKYYPVKVKPLPAPFSKILLN SPAIPQLPITMNGSDFSLPEGPM NRWENIQLTPETRLAPRAYFFS YDSVAQARTFARETSSLFLPLS GQWNFHFFDHPLQVPEAFTSE LMADWGHITVPAMWQMEGHG KLQYTDEGFFPIDVFPVPSDNP TGAYQRIFTLSDGWQKGKQTLIK FDGVETYFEVYVNGQYVGFSG GSRLTAEFDISAMVKTDGNLLC VRVMQWADSTYEKQDQDMWW SAGIFRDVYLVGKHLT
24978	55346	A	25116	1	2643	
24979	55347	A	25117	2499	2935	RSGGVACNCAVSASCMLVTVL PWLSLPV/SVFGWLDGFFASLG VTALLAATPA\W*GVKT*CRPG RSP/SLTVRLGSVISPMIGGLLLA TGGVALLPLLSLPALPPPQPRE HPLKSLLAGFRLLASPLVGGIA LLGGLLTMASAVRV
24980	55348	A	25118	676	1035	
24981	55349	A	25119	1	1842	
24982	55350	A	25120	1	1341	
24983	55351	A	25121	563	1360	PSVLRCRNWVI*SPYCISLPSRV SSLPFLVWIPVAR/CTAIGASRE AMLGVLVEPMLLLGLWVAAQ VAGSTNISNITDTVYHWPLSQSI PLVLALCACAFATFIEMGKLPF DLAEAEQELQEGPLSEYSGSGF GVMKWGISKQLVVLQMFVG VFIPWQGMETFTAGGLLLALVI AIVKLVVGVVLVIALFENSMARL RLDITPRDMIRIELDSWEQNGE AIKRTGQPLLLSLLVRNLLDNA VRYSPOGSSVVDVTLNADNFIVR
24984	55352	A	25122	382	1424	VLENLSEPPNQHDIEILTQVR KEEETALSCRLVLRKLTETEPVI IFEGIEAPATLPADEVVPGKDEN DNVEVSRWGTPREFDFEVRDH VTLGEMHSGLDFAAAVKLTGS RFVVMKGQIARMHRALSQFML DLHTEQHGYSENYVPYLVNQD TLYGTGQLPKFAGDLFHTPRH ECFRHIGSLGLATPLVTECMQW LFGIPHTLQLDAIITCWILNAIC VACGLQKGVRIASDVRSYLSFL MLGWVFIIVSGASFIMNYFTDS VGMLLMYLPRLFYTDPIAKG GFPQGWTVFYWAWWVIYAIQ MSIFLARISRGRTVRELCFGMV QEFGCKSSTKIDNADFNQA

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24985	55353	A	25123	416	610	
24986	55354	A	25124	662	811	AQQLPGMSDWQNSQEQHQMK N*VRLFMRTSRKLMDRNLNVLK LWSPNRT
24987	55355	B	25125	1	3264	
24988	55356	A	25126	489	3256	PRVFSSATRSVLAMRRWVYRV RRIQYRRTTQTAVFHSTHGNRYR EGQPVGTLIDDRYKANENVEL VHYAQPLLNEADSLAKVMPSDI PLKQRRWGLQMLEGDIYSRA YAGEASQHLDAALARLRNEMD DPALHIADARYQCIAAICDVVS NTLTAEPSRFTTAVDKIVLNRFL GLPIFLFVMYLMFLLAINGGAL QPLFDVGSVALFVHGIQWIGYT LHFPDWLTIFLAQGLGGGINTV LPLVPQIGMMYFLF
24989	55357	A	25127	779	910	
24990	55358	A	25128	2203	2665	ACWARISA AVIQRSGMPGVRV CGRIKSCSKAVRCQRHVFATCV WNGRQVTSGAGTWSTIAWYSG VMSSAISSWSRPAIPFSAEA*TIG KSSC/YVGRVEVNEQIEYLIHNP IRTRARAVNFVDNNRLQAVS KRFFGYEARLRHRAVKCVNHQ QH
24991	55359	A	25129	241	918	
24992	55360	A	25130	2142	2646	KGVC GTTNPAKI QAILQAFHEI FGECSCHIASVAVESGVPEQPF GSEETRAGARNRVANARLLP EADFWVAIEAGIDGDSTFSWVV IENASQRGARSATLPLPAVILE KVREGEALGPVMSRYTGIDEIG RKEGAIGVFTAGKLTRASVYH QAVILALSPFHNAVY

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24993	55361	A	25131	473	1765	KAWLMTGIVRHWKGRAVPPA EQLEHLGNGKSFDSVAQAWD AAMADAKAEDTVLWGVEAFRI NAAVAKDDTQIHTHMCYCEFT DIMDSIAALDADVITIETSRSDM ELLESFEEFDYPNEIGPGVYDIH SPNVPSVEWIEALLKKAARKIP AERLWVNPDCGLKTRGWPETR AALANMVQAAQNLRRGARAG CAADFAASARLAVGEALTNIA ATQIGDIKRIKLSANWMAAAG HPGEDAGLYEAVKAVGEELCP ALGLTIPVGKDSMSMKTRWQE GNEEREMTSPLSLVISAFARVE DVRHTITPQLSTEDNALLLIDLG KGNNALGATALAQVYRQLGD KPADVRDVAQLKGFYDAIQAL VAQRKLLAYHDRSDGGLLVT AEMAVLSSLGQGGYFGHMII/D SGQYPGKSKTGQSTPDVAAQA RQSWIP
24994	55362	A	25132	602	2563	VVTTLTLVLTAVGSVLLLLFLV MKARMHAFLALMVVSMGAGL FSGMPLDKIAATMEKGMGGTL GFLAVVVALGAMFGEILHETG AVDQIAVKMLKSFGHSRAHYA IGLAGLVCALPLFFEVAIVLLIS VAFSMARHTGTNLVKLVIPLFA GVAAAAAFLVPGPAPMLLASQ MNADFGWMILIGLCAAIPGMII AGPLWGNFISRYVELHIPDDISE PHLGEGKMPSFGFSLSLILLPLV LVGLKTIAARFVPEGSTAYEWF EFIGHPFTAILVACLVAIYGLAM RQGM PKDKVMEICGHALQPA GIILLVIGAGGVFKQVLVDSGV GPALGEALTGMGLPIAITCFVL AAAVRIIQGSATVACLTAVGLV MPVIEQLNYSKRRGFTGRVEEN FGVCKGPSKYHSQHDAINRQG REASDAHGTLENLPLPLVPQPN AATALAALRASGLEVSENAIRD GASAILPGRFQIVSESPRVIFDV AHNPHAAEYLTGRMKALPKNG RVLAVIGMLHDKDIAGTLAWL KSVDVDDWYCAPLEGPRGATAE QLLEHLGNGKSFDSVAQAWDA AMADAKAEDTVLVCGSFHTVA HVMEVIDARRSGGKLCQMHVN VQDKIDEEINQVHICLCLVLVIV SGCKYVGYSKLCSEHYYSVR

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24995	55363	A	25133	518	1079	TQKETNKRCSPVGVWYPAFRM AHFLASERSCYQKLSNRKSH AVAGMVSGMTVANLL/EHSAG NVFKSGI*LALHLFIDRCF*YCG DGIGLFLGARYSRRGERKSART ISLFAQPGPVVNFRRHDVWQRR CVCLVQLRKAIHDVYFRFFGNG DDLYYDVSWARDGAGKYAKW QDFRTLFTTAHCSSD
24996	55364	A	25134	322	798	AQRAHVVGTVGKFDEDDADIL HHRHNHLAKVFGLRLFLIAELE FIKFRHPLYQLGDAFTKKLFHIL ILVVGGSIFNHVMQQRHQRFI VEFHLGQNAGNATGCVI*GSPL ERVCP*ASRATRYACRRRLIW SIARPAKVSACCSAIATSK*RS KGQRVLLGNCHVEVAIREFT
24997	55365	A	25135	440	906	CGFSSLSRLPHSSYSAHHA VAPS VLMSASGRPRWSQWYRWIFRA GVYTGSIWFFICSTVRPHDASQ RRLSSLT/QVSQDFTFQPVNHQL WAGGKPTAGITVGKQ*W*PFIK FTVPGDDSGDGRGQGLQIAAG KCRAQTFFSFCRAGKHDP CRT VS
24998	55366	A	25136	1059	1541	TAPLLRPGCRLS*SAAHPAAPA QSTNQCPGDRYAATLPAHHRH TNHG*IADVHQHISATPASAAS YAPGFLKDGAPASERHRETGC GRDRPH*PSLYKLSGILRPYQPA SFPG*QQRVLSAR*LLPVQCSL HSQRCRRRPHRLHRSAPAPGIR ERRSRR

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24999	55367	A	25137	236	2211	QGALMSIEDIFDAIIVGAGLAGS VAALVLAREGAQVLVIERGNS AGAKNVTGGRLYAHSLEHIIPG FADSAPVERLITHEKLAFMTEK SAMTMDYCNGDETSPSQRSYS VLRSKFDWLMEQAEEGAQL ITGIRVDNLVQRDGVVGV DGDVIEAKTVILADGVNSILAE KLGMAKRVKPTDVAVGVKELI ELPKSVIEDRFQLQGNQGAACL FAGSPTDGLMGGGFLYTNT LSLGLVCGLHHLHDAKKSVPQ MLEDFKQHPAVVAPLIAGGKLV EYSAHVVP EAGINMLPELVGDL HERSLIFVASGPAGNSKETASD KLEEALPTKNWEVPGANWNT GNGIPSVPEKLKGMLSAPNYRR MVLPAPLQILLQNAKGGELLG AAGGQIAFNLGSAVGAYCGGM MLTLGLAYNYVALPAALLSFA AMSSLLLYGRYKRQQAADTPV LAKPLGQLDNAPFCENVNLIR EEIGFNALDKFKRTTGALLQLQ QALHPALGADLCGSTGFVLF SPVRGNTHLRHLVHIFGTDLDL NRHSVRADHRGVQRLIAVRFW NGDIVFHAARTLVQAVHLAQ HAITGVRIIDDHAESVDVHDRV KTLLFEHHFAVNRIKMLLPTTD AARYSRFLQTPDFRKNLLDHL
25000	55368	A	25138	1	1932	

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25001	55369	A	25139	1	1200	MAIPAFGLGTFRLLKDDVVISSVI TALELGYRAIDTAQIYDNEAAV GQAIAESGVPRHELYITTKIWIE NLSKDKLIPSLKESLQKLRTDY VDLTLIHWPSPNDEVSVVEFMQ ALLEAKKQGLTREIGISNFTIPL MEKAIAAVGAENIATNQIELSP YLQNRKVVAWAKQHGIHITSY MTLAYGKALKDEGIARIAAKH NATPAQVILAWAMGGGPVEW RR*QIWRGFSSAS*RHELYITTK IWENLSKDKLIPSLKESLQKLRTDY VDLTLIHWPSPNDEVSVVEFMQ ALLEAKKQGLTREIGISNFTIPL MEKAIAAVGAENIATNQIELSP YLQNRKVVAWAKQHGIHITSY TSYMTLAYGKALKDEGIARIAAKH NATPAQVILAWAMGGGPVEW MAKVADMAGIFVSKLKTFFNAG VKGSTLGASGPQYVMVPKKHA DQLRESLASGEIAAVQSTLVAD NTPLNSRVYTVRSGDTLSSIASR LGVSTKDLQQWNKLRGSKLKP GQSLTIGAGSSAQRANNSDSIT YRVRKGDLSLSIAKRHGVNIKD VMRWNSDTANLQPGDKLTLFV KNNNMPDS
25002	55370	A	25140	2237	2404	
25003	55371	A	25141	307	642	
25004	55372	A	25142	1449	2084	NAPRCAYYVDVIAVTMPTTCC TLKISPLCRELILTLANRTTTQR AEPMTRRLIQVLFDELPQQPQQ QLHLPVSSHPIRTMVEEMAK GPVEWGALGQWAGFFAMSER NLARLIVKETGLSFRQWRQQLQ LIMALQGLVKGDTVQKVAHTL GYDSTTAIFITMLRKPGKTAGTS LYHRRYGVSLSSAWGQVGGP RYCRQANSVLSDRFCVLI
25005	55373	A	25143	981	1103	
25006	55374	A	25144	222	379	
25007	55375	A	25145	1	1452	
25008	55376	A	25146	500	854	
25009	55377	A	25147	1	1374	
25010	55378	A	25148	2	167	
25011	55379	A	25149	781	1047	
25012	55380	A	25150	1	783	

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25013	55381	A	25151	442	857	LVKNPVKRMEIQQKNLTLFEYL DWWDVLFLLLESELLFANTWL AATSESVDDCSGVKPPSGKNGT *AMPSWAKASIIASSARCAML SFCTQTISAILRASATCVGVTL RPICFTRPCCISASTVRLASIDP SAGP
25014	55382	A	25152	3	4105	
25015	55383	A	25153	2	269	YKNPYIAAKIQPKTHDTLTPINP GRIKLWLMTKRPMWVVPERSN *IAARSLG*VGRM**P*QAGAE ATMYAGSTPIASATGTIAASAA A
25016	55384	A	25154	1	1370	MCPIEETASSFGGKPLSMVLVIQ MFMLLTGALIIILTKTNPASISK NEVFRSGMIAIVAVYGIWMA ETMFAPACYGYIILPTYPDLA AIQFDRSGTTHIGRFVINHSFILP GLIGVSVSCVFGWIFAAIKRDA AAGRAKENVIFHHFPFQSVKAD IATNPFKRPGGAFIRITQTFRTV QTFRLSAYRLDFAGDRLRISTPR AKMRTAFKKDHLRQRRRCIRQ RAPPARHNLVGAVALPATVAG VNFTFSNVPLDSSVLSSLLTDFS TAVGSIVMLAVIMGLMLAFDM GGPVNKVAYAFMLICVAQGVY TVVAIAAVGICIPPLGMGLATLI GRKNFSAEERETGAALVMGC VGVTEGAIPFAAADPLRVIPSI MVGSVGGAVTAALVGAQCYA GWGGLIVLPVVEGKLGYIAAV AVGAVVTAVCVNVLSLARKN GSSTDEKEDDLDFEIN
25017	55385	A	25155	1	789	MKIIAGITPADSGTLEIEGNNYV RLTPVHAHQGLIYLVPQEPLFP SLSIKENILFGLAKKQLSMQKM KNLLAALGCQFDLHSLAGSLD VADRQMVEILRGLMRDSRILIL DEPTASLTPAETERLFSRLQELL ATGVGIVFISHKLPEIRQIADRIS VMRDGTIALSGKTSELSTDDIIQ AITPAVREKSLASQKLWLELP GNRPQHAAGTPVLTLENLTGE GFRNVSLTLNAGEILGLAG/TEL AETLYGLRTLGRGRIML
25018	55386	A	25156	1	1332	

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25019	55387	A	25157	1594	2220	MWVNPERGRAENTIIGGNATGI GTLNVQDQDSVITVRRLS*SAL KPGILVFKLTPAETERLFSRLQE LLATGVGIVFISHKLPEIRQIAD RISVMRDGTIAGTGFGDDFGFT HPLRQQRLPQHLVSFMRAAVQ QIFTLEIQRGVRPGCNVLAFGQ RGWTPGIVFQQVVELSLKFRIFL RTDKSFFQLAQSRHQDLWHVH AAKLTKIGVK
25020	55388	A	25158	14	237	KTTSFPAKLFNACRISLLASAE/ CQSEYFSIFSNDLADTVMFLL* GAIRFSDLVNEQIQTFLIPGETI CRLSEVV
25021	55389	A	25159	1	1506	
25022	55390	A	25160	158	639	SGC*PGRPSLN/GRLDVLSAWS VSILRLGGMALEGSIAIYIVINFC DVKPQRFRLSVPAASITVVLIIQ QFVLHRRRELRRKLALPAHHLVT FTWGNVSAVDETRQWMVIKPS GVEYDVMTADD\RWWR*PAV RWWKAANKPLPIHQRIWRSTV AMPKLAVLC
25023	55391	A	25161	2	2886	SVPTIIFFFLPVLRFWRPGIQA KKCHLFATGTQSRRLTLRQRT AKGIPQQRMTAKREEISIGILHV TPQQRRECRGDNRTARFRRT WRLLGHCVSAAVTGVLPAVAG SPLAYSDTDEFYPVAGGTMSQ HLPLVAAQPGIWMAEKLSELP AWSVAHYVELTGEVDSPLLAR AVVAGLAQADTLRMRFTEDNG EVWQWVDDALTFELPEIDLRT NIDPHGTAQALMQADLPQDLR VDSGEPLVFHQTTLGFI
25024	55392	A	25162	1	1659	
25025	55393	B	25163	200	646	
25026	55394	A	25164	1	3197	MPHRQHGPQMTPSHQRTTINR DQREQQPIGTAAPQTRPQSAPY CEPHTRRRTLQPHNRGFRITAKY TSTQARKYHMAPERSNDS PVHTRSRWNATQTERHTQH SPPSSLRLRTNCTSHAHRYH RHAQWHRVGLLDVKPTGVPSN TVFSPKKNALWADRVDTSRGR TTVEQDNHPNGGNVVGTPSDN NFWLETTGGDPNKEYYHHHHY NEDYCRYYPILLIAEPLLFPSLSI KENILFGLAKKQLSMQMK
25027	55395	B	25165	1	2505	

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25028	55396	A	25166	159	1744	NSRISGLQQRVLMHIMVTQGGL MSLSIVHTRAALGVNAPPITVE VHISKGLPGLTMVGLPETTVKE ARDRV/RSAINSGYEYPAKKITI NLAPADLPKEGGRYDLPIAIAL LAASEQLTANKLDEYELVGEL ALTGALRGVPGAISSATEAIKSG RKIIVAKDNEDEVGLINGEGCLI ADHLQAVCAFLEGKHALERPK PTDAVSRALQHDLSDVIGQ\EQ GKRVLEITAAAGHNLLIGPPG TGKTMLASRINGLLPDLSEEA LESAILSLVNAESVQKLWRQR PFRSPHHSASLTAMVGGGAIPG PGEISLAHNGVLFDELPEFERR TLDALREPIESGQIHLSTRAKI TYPARFQLVAAMNPSPTGHYQ GNHNRCTPEQTLRYLNRLSGPF LDRFDLSLEIPLPPGILSKTVVP GESSATVKQRVMAARERQFKR QNKLNAWLDSPERQFCKLESE DAMWLEGTLIHLGLSIRAWQR LLKVARTIADIDQSDIITPTYCG KADARNSGNVCPSSRALVQR
25029	55397	A	25167	127	503	NRCLLLTLRCKGRNREEENDA EAESEKLKKNFNRPSGRLSYGD RMFDIGVNLTSQFAKTVMML *RARLGLR*TTGLELRELLPLIP AEKL*/YETDAPYLLPRDLAKP STSRVHCVIEARAWFK
25030	55398	A	25168	3	406	

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25031	55399	A	25169	1	1252	MFDIGVNLTSQFAKDRDDVV ACAFDAGVNGLLITGTNLRSEQ QAQKLARQYSSCWSTAGVHSH DSSQWQAATEEAIIELAQAPEV VAIGECGLDFNRNFSTPEEQER AFVAQLRIGADLNMPVFMHCR DAHERFMTLLEPQMVENYETLI FEAHSTDYQTPQSLRQLVIDHF AILKVGPALTFALREALFSLAAI EEELVPAKACSGLRQVLEDVM LDRPEYWQSHYHGDGNARRLA RGYSYSRDRVRYYPDSQIDDA FAHLVRNLADSPIPLPLISQYLP LQYVKVRSGELQPTPRELIINHI QDILAHTTQPVKANKQNKEEH AMPNIVLSRIDERLIHGQVG VQ WVG FAGANLVLVANDEVAED PVQQNLMEMVLAEGIAVRFWT LQKVIDNIHRAADRQKILLVCK T*WKWYWQKGSPYVSGRCKK LSTTFIAPPIDRKSCWFVKHPPIS
25032	55400	A	25170	2	319	YSSVFSLSASASFSSSRFRPLPT* KREKKTPISNRQYIGIANSVCEK TSGGVSNIPTTNAPTSTYGRFLR KSSGEVPIQHSSTIATGTSETP NAINSAITKLK
25033	55401	A	25171	1	1011	MIPHPKLEGDRSTQALPPTPVIR VTERRNLNWVGTIGFVHTGK PLSFVYDMADIHKFDTVPKAF EIARRNPGEPDREVR LACRDIFR SSKTLAKLIPLIEDVLAAGEIQPP APPEDAQPVAIPLPVSLGDAGH RRRRSGRVSEVSWRSGVMSFR RASGDKPQPKPKVMPEHAECPP AARRGQMMSICPCFALKIDIAD NKFFNGETSPLFSQSQA KLARQ FHQKIAGYRPTPLCALDDL ANL FGVKKILVKDESKRFG LNAFK MLGAPEKCHRRKNDF*RRSDRI VLIRL*REFSSHQKGLRDRPAH KAVLGDNQLFSGGTGAPVWPG FAKRAVMF/TPLKNLLSAISIFN AKHGHILIIWPRLAAGGHSACS GITFGFGCGLSPLARRK LMTPE RQLTSDTRPDRLLRWPASPSET GSGMATGCASSGGAGGCISPA ASTSSISGINLANVLLLRKISLH AKRTSRSGSPGLRRAISKAFGTT VSNLMMSAIS
25034	55402	A	25172	1	510	
25035	55403	B	25173	1	1482	

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25036	55404	A	25174	704	1069	RLWQADCKENAG\GDYYWTF PQPTFVSTQKYYCHVDNSCYM NFDFAPEYHAHWRYGLLMVG ESQHGLGANAIQASQCFAAN QPLGADATFLQQIKGEIICFGLFI TGVFSIDSAFCBIT
25037	55405	A	25175	1	639	MARVWLCDFIPYGYLPTLNAM PESTRKQIMPWTRLGSLHTWN RTPNRRIGRYPSGLPPDSANRPR REPDAACSLHSPAKYRGPNPRD RLDHQQNGLPARGKDTPRSNG PSISQWTNTKPQPRHQPRGKKG HKSPAPEMPKPPQATSSSTREQT KYGAAELWRSPWKTRYIELKA RGPMACVTISLNVCCAHLVRL VMVTLKQTDPIRNLGEMPSKSQ TKKAREVHLHSLHLQELAEQ EPPARKRKTQWAVSERK
25038	55406	A	25176	82	356	AQCEEYRVPQTLKRNPQCFDI SIRGGSQPCGIFSTPVRNTLQNM GQMGWL VAPG*WLWREIRKH NRWCACPRKPGRAGISMALRW GSGHA

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25039	55407	A	25177	1	2635	MNKSGKYL VWT VLSIMGAFAL GYIALNRGEQINALWIVVASVC IYLIAYRFYGLYIAKNVLA VDP TRMTPAVRHNDGLDYVPTDKK VLFGHHFAAIAGAGPLVGPVLA AQMGYLPGMIWLLAGVVLAG AVQDFMVLFVSTRRDGRSLGE LVKEEMGPTAGVIALVACFMI MVIILAVLAMIVVKAL THSPWG TYTVAFTIPLALFMGIYLR YLRP GRIGEVSVIGLVFLIFAIISGGWV AESPTWAPYFDFTG VQLTWML RLINRSIMMDFSLTEE QELLAS IRELITTNPPEEYFR TCDQNGTY PREFMRALADNGISMLGVPEEF GGIPADYVTQMLALMEVSKCG APAFITNGQCIHSMRRFGSAE QLRKTAESTLETGDPAYALALT EPGAGSDNNSATTTYTRKNGK VYINGQKTFITGAKEYPYMLVL ARDPQPKDPKKAFTLWWVDSS KPGIKINPLHKIGWHMLSTCEV YLDNV*TSVWRTCACPALRRA TQRYRRQSRAGNLR TSGEAI RR DMEWTS LRSE DWEKGDTIKQC ISAATSCVYGV TGEGILEGGDA QILREPLPGTKLGLLNWPVFDA LESRSTRERD GKPGGEICGETA NILIRGPENRPLRRDPPGKP

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25040	55408	A	25178	216	1829	TVCRCCHFVTTKHIGRERNQRRAR QCLVGKTTDTQQHNCDIRVGE QADHTRANHQHCTQRYDHLTG NDQVHTKPTLEQRRQVTTEDT TEVSKQHRHPGEHRDLFQRTLN ISADDQRRLLLELQNDNLNHNRR IWLRLAAQPEDHIYGCGEQFSY FDLRGKPFPLWTSEQGVGRNK QTYVTWQADCKENAGGDYYW TFFPQPTFVSTQKYYCHVDNSC YMNFDFAPEYHELALWEDKA TLRFECADTYISLLEKLTALLGR QPELPDWIYDGVTLGIQGGTEV CQKKLDTMRNAGVKVNGIWA QDWSGIRMTSFGKRVMMWNWK WNSENYPQLDSRIKQWNQEGV QFLAYINPYVASDKDLCEAAQ HGYLAKDASGGDYLVEFGIFY GGVVDLTNPEAYAWFKEVIKK NMIELGCGGWMADFGELYPTD TYLHNGVSAEIMHNAWPALW AKCNYEAEETGKLGEILFFMR AGST/GDIGGYTTLFEMKRSKE LVLRWCDFAFTPMMRTHEGN RPGEHWAF/DGDAKHRHLAVY
25041	55409	A	25179	277	488	
25042	55410	B	25180	260	1500	
25043	55411	A	25181	1	764	MQEWGRYTILSGCCNSALKGD VCLLYGFRVAGRRQASE*TPGA YNRVPSSKK*GFQLVLLPFSAN GKSPAY*RFSKSFAEDGEKDAG FPHPYAEAGYDNGGRRSGAGT LLSR*I*TGAGRGAWRV*RLTG E*MAGKRT*VTASGYSQR*IMV FLWSLYRSYRL/GRVRQHNGPR YLPVLARNWKMSAWVAAAW QGLTDMKRKTMKIRSGSIVILA SGYAATAA*PLSGDRIFLP*PGK TG*RHGGTPSCAGFTGDY
25044	55412	B	25182	1	3117	
25045	55413	B	25183	270	388	
25046	55414	A	25184	2154	2279	
25047	55415	A	25185	614	623	RPNSGAR*GRGDKRSTQSVPET VRLLCAGTFDQQPGNARWDD QYRCIRSGIVGVRAVLLGGDIL DTQPLVELAETLGKSAE

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25048	55416	A	25186	1208	2813	CYGVAVPFDPTLKFEFWRYFT HALMHFSLMHILFNLLWWWY LGGAVEKRLGSGKLIVITLISAL LSGYVQQKFSGPWFGGLSGVV YALMGYVWLRGERDPQSGIYL RRGVIIFAPIWIVRRWFEMTPTQ WSNYFFENLFKYEWVQTRSPA GAIQFEAVDAPEIIPDPFDPSSK RKPTMLVTDLTLRDPEFEKISR RFLNDPQAFNEAFARAWFKLT HRDMGPKSRYIGPEVPKEDLIW QDPLPQPIYNPTEQDINDLKFAI ADSGLSVSELVSVAWASASTFR GGDKRGGANGARLALMPQTR TGDVTRRQPIRALPVLEKIQKE SGKASLADHIVLPGLFVVEKSA SAAGLSIHVPFAPGRVDARQDQ VTAIGMFELLEPIADGFRNYRAR LDVSTTESLLIDKAQQTLTAPE MTALVGGMRVLGANFDGSKN GVFTDRVGVLSNDFVNLDM RYEWKATDESKELFEGRDRET GEVKFTASRADLVFGSNSVLRA VAEVYASSDAHEKFVKDFVAA WVKVMNLD RFDLL
25049	55417	A	25187	1520	1960	PVPLNFGWQRSTEVLIHVNSP STAAMTISPWRR**RRRTKQLS APLLLGVSAIGW/LTIILVAFMA WLLAKT/AFGRSFYATGDNLQG AR/QLGVRTEAIRIVAFSLNAER DFDDL RDSGPLIAMILFIMPTLS SISSRRLNPGVPSEI
25050	55418	A	25188	1155	1778	SASGGVMLKFIQNNREITALLA VVLLFVLPGLDRQYLSVQTLT MVYSSAQILILLAMGATLVMLT RNIDVSVGSITGMCAVLLGMLL NAGYSLPVACVATLLLGLLAGF FNGVLVAWLK/IPAIVATLGT YRGLMSLWTGGHWFEGYPRIE KPSPPVAGVHHWCVTQIGGLRP AVAKRVGPDLPDGNKGAKGVL NTLDNYGVDGKCV

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25051	55419	A	25189	1	2227	MVTIAGIILGGLALVGLITYFGK W TYLWKEWLTSDHKRLGIM YIIVAIVMLLRGFADAIMMRSQ QALASAGEAGFLPPHHYDQIFT AHGVIMIFFVAMPFVIGLMNLV VPLQIGARDVAFPFLLNNLSFWF TVVGVILVNVSLGVGEFAQTG WLAYPPLSGIEYSPGVGVYWI WSLQLSGIAVAHIAAQNVAVLL ISSDLEEIELMADRVIYVMHQGE ITHSALTERDINVEITMRVAFGD SQRGVMLKFIQNNREITALLAV VLLFVLPGLDRQYLSVQTLTM VYSSAQILILLAMGATLVMLTR NIDVSVGSITGMCAVLLGMLLN AGYSLPVACVATLLLGLLAGFF NGVLVAWLKIPAI VATLGTLG\ LYRSIMLLWTGGQWIEGLPAEL KQLSAPLLLGVSAIGWLTHILVA FMAWLLAKTAFGRSFYATGDN LQGARQLGVRTEAIRIVAFSLN GCMAALAGIVFASQIGFIPNQT GTGLEMKAIAACVLGGISLLGG SGAII GAVLGAWFLTQIDSVLV LLRIPAWWNDFIAGLVLLAVLV FDGRLRCALERNLRRQKYARF MTPPPSVKPASSATSDFICIGIVA LPLTMVIVSGGIDISFGSTIGLCA IALGVLFQSGVPMPLAILLTLL GALCGLINAGLIHYTKVNPLVIT LGTLYLFAGSALMLSEEQKNTK KTRQREDKKKEKKKQRKREEK
25052	55420	A	25190	1055	1206	SFALFSSSSPRSRP*FASTKS*TL TTGQVLPSTNVRFLTGNWGPPV VATG
25053	55421	B	25191	1	1386	
25054	55422	A	25192	1	449	MQDPLLALLE DYNKGDLEKQV PPAQSGPQPGKAGDRPIVIML DPGHGGEDSGAVGKYKTREKD VVLQIARRLRSLIEKEGNMKVY MTRNEDIFIPLQVRV/AKAQKQ RADLFVSIHADAFTSRQPSGSSV FALSTKGGMCSYRGSGCLQ
25055	55423	A	25193	1536	1941	STSNQNSTALCRRRGLVHCIDG ANDDDSV MVWPSGSGRPWSAE PGAPQRIYAQLVVEDVELDLLH FIVFGDDVMLNVVLQGGQAFML ALGLVTNVGVLAHAHHHALVS GVPNDGGGTWVGGRVCVQSQ LCTCWSHCQ

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25056	55424	A	25194	240	855	SRAGYAPAAAQKVASPYVRRE R*NQSD\PAVLTGIGERGK*LLS RDFFIAPLAGMIVEKRGAVHLA RWSVPVERKGQWQPAGLWAQ FFLADIVCPAATALPDTTAEDQ HIDHPAVVHVHVIPVVNTCAED NHRAPMRFMGGIGKFTGDGFNI LARHPGNLLTPGWGVRFDGFSVI FRTVFIFQPAIEAVIRQYQIINAD HRTGVAID
25057	55425	A	25195	840	1157	QYAPT\QPARPADPFALPTVQA RLTPFCYLVAKGDWCVYRRSY SLWHSVASPRVRQSPRLGY*GY TANSPGILLAPLSLRGEMFLPQD APKSVPYPYKRGKSVAIN
25058	55426	A	25196	1076	1339	LVCVASMPVEISTDASASSGVI VISSAMSGSWSAETKRRLAMV* PEPLHLWAISIPTTSGRFTSSLIS PFPAR*YSPARYIPRVWRV
25059	55427	A	25197	2	118	
25060	55428	A	25198	1809	3145	ARHKQHAYGYRYRQSPRCYGV SGKKRGLRYYGSWLAISGSSRI TR/LLCMYLRFFFIGVIGADIAN MGISAGAMWLLSVSQVSLAAV SQVVAVRVWPASSYTRVTVES NRQLKYKQFALSNERVVVDIE DVNLNSVLKGMAAQIRADDPFI KSARVGQFDPQTVRMVFELKP NVKPQLFALAPVAGFKERLVM DLYPANAQDMQDPLLALLEDY NKGDLKQVPPAQSGPQPGKA GRDRPIVIMLDPGHGGEDSGAV GKYKTREKDVVLQIARRLRSLI EKEGNMKVYMTRNEDIFIPLQV RVAKAQKQRADLFVSIHADAF TSRQPSGSSVFALSIQRGARPVG DRYVDHTMFDMVQSLTIADSL KFGKAVLNKLGKINKLHKNQV EQAGFAVLKAPDIPSILVETAFI SNVEEERPNGQPGHPLDPATTM GTLIDCAHADSVQ
25061	55429	A	25199	1	277	
25062	55430	A	25200	902	1006	
25063	55431	A	25201	2	1265	
25064	55432	A	25202	409	525	
25065	55433	A	25203	91	431	NHKPGNIDVARRIQRGFAGDQI GHLRPVERQCSPDKRRFIAADG REIRGKQRAGHIFQLLSRCLLQI LNHCQRRAAHFRFQLSNQRHQ QLLPV/HYHAAEREYPAGACLV RWLL

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25066	55434	A	25204	3	71	
25067	55435	A	25205	1	1212	
25068	55436	A	25206	1	2786	MAAVIEQIRRAVLALVTGVVHP GDIPVVWDIVWNATAAFIAVIII SLLDESFFEWAAHLVLRWG YGPGRLPFNRIIRITRRIRQR LLFGLVTFILLNRSQNPAQDIQ LLAFRARTGKQTAQFIHHLPRM VFTDKTGSSNGLAPQGQCSAQ GELILNEKLAKQLVTAANWVK MQSDEGEINPVDILRWPGVMA AQEQDLDAIAAEILAALDGTLD DFIVARETEGQSGLRVYHSPG APDIREFTRDAIP
25069	55437	A	25207	5	402	EIFSVMWIIMTRGDVVTISRWR VSSSPLETWNKRWAKISPAPFS LLPISRLEKSEGDWLPETVISAF NMPSSLSLISSL*FKVRDV*HFF /RI*TLRGHYRVINWPNFNIVVS QGIGKRLANSWLVFTLFHRI
25070	55438	A	25208	48	219	PETCGHLWAYVWPSCAAVGL YFKVHVLG*RSVTPVTDIVKLL EFTRLRLPGYTKSIE
25071	55439	A	25209	1	912	

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25072	55440	A	25210	1	1857	MRVCARACVTRTRMCVYAH TCVVCVRTYAYVRVRVRVHVRA RVRVCAYARTRVRNLSILPFIQ LTLATPIHHIHQEEFNIRGIVPVL RRVKPDLAIGIDITPSCDTPDLH DYSEVRINQGVGITCLNYHGRG TLAGLITPRLIRMLEQTALAHN IPVQREVAPGVITETGYIQLFLP GWEIGFSPLALLLAFLCSTSPGF GDPDGLGVIAVQDTPVRPNAAT AISELNALAVKGVILTGDNPRA AAAIAAGELGLEFKAGLLPEDKV KAVTELNQHAPLAMVGDGIND APAMKAAAIGIAMGSGTDVAL ETADAALTHNHLRGLVQMIEL ARATHANIRQNITIALGLKGIFL VTTLDDRVRVAGSAGRYGGDGA GDSECVKIVAQEIRQTDNRNER DRSPRPSGERVRVRGKGGIEAN QPLSTAFTNQITIRQSIRLFSNQF VFHKGISRVVAGSSAIIISNVSPG CILRTPNCRRGFPISTGEGKAA YGWQRDGGHAEYLLAEKDLI LLPDALSYEDGAFISCGVGTAY EGILRGEVSGSDNVLVVGLGPV GMMAMMLAKGRGAKRIIGVD MLPERLAMAKQLGVMDHGY*I LPDVY/V*IGVARVSWMNGRID SELRTVRAYAHTRTRARTCTR TRTRTYAYVRTHTHVCAYTHM RVRVRTHARAHTR
25073	55441	A	25211	3	1180	SKLGTRRSVVWA*SPSTSPTLW CSTFSAAGHSSMKRMNEFVDL LPAQQRMKGENWYRGTDADV TQNLDIIRRYKAEYVVILAGDHI YKQDYSRMLIDHVEKGARCTV ACMPVPIEEASAFGVMAVDEN DKIIEFVEKPANPPSPNDPSKS LASMGIVFDADLYELLEEDD RDENSSHDFGKDLIPKITEAGLA YAHPPFLSCVQSDPAEPYLAR CGYAGNFMESERPSGLIRVSCM PAGPPLPLPAARSEAPKAAGTV ASVPSIAPARLRVPDPVELVLV AAEFITPGDPTPRLHSGGFIDIR QIHHQTRSHLEGVKTGIRFLNH FSGNPQGGIAHVNGVARFQVK QCHQAWGQQYAARLRFQARGI SLQIAIHRVDIHRFDVRQL
25074	55442	A	25212	16	543	
25075	55443	A	25213	1	3387	

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25076	55444	A	25214	1688	2234	LSVGKTFPVLVPAAFRKVSATG AAVPGTPSILALPSYSTTPFGVC TSASMNPVLTLRIRTRVTGEV AAIKPFSMANAPTPDSILPQLGV VSTRCS*TITCANR*STSARGSL ERLIMATLL/WVAGTFD*SVWF GHDTDVVTLYRFHEALCYSVT LRTPHRRVLRFKSQHPGELACFI SPVA
25077	55445	A	25215	905	4761	PPHNWMPSNATPGIAFVWCAY GAI/LPGDAPVPVVDYRKVVR KDTKGLIARWKYFWMSVIALG VAFALYLAGKDTPATQLVVPFF KDVMPQLGLFYILLAYFVIVGT GNAVNLTGDLGLAIMPTVFV AGGFALVAWATGNMNFASYL HIPYLRHAGELVIVCTAIVGAG LGFLWFNTYPAQVFMGDVGSL ALGGALGIIAVLLRQEFLVIM GGVFVVETLSVILQVGSFKLRG QRIFRMAPIHHHYELKGWP
25078	55446	A	25216	269	1219	QTRTRRVQLQDLIEYVAIHQW/ FSDKHPVPFYSCIFDD SITNCYS WSISKDGYFIFGGA YPMKDGQT RFLTMKDKMSAFQFQFGKTVK SEKCTVLFPSRGQDFVCGKDNA FLIGEAAGFISASSLEGIIYALYS TDIPRSVLLKQPKLNPAYWRA TRLVCITLFGQIVNTICMAAPDL RKWIMLSPVAHKHHLEWVLH DMQILPVPRPSGCICSGSSTFFC NWGCPYDRPQWQLYPSMCLC VHIGPAPVRSEKVESKRAISKV DQDSAFRGCCRSNGNRNGGRKI VAVSLKKVSGAAKPCGHFRST RYRVAYSTIIN
25079	55447	A	25217	1	1158	
25080	55448	A	25218	1156	1899	LKLGIRYPQCQRLVTHSLDGLSL PLHTAH*SQNSAENTHRAISLK AVPPFFTAERRGVNAEEHRNGR LINGECRQRFNVLRVANGVRN VQFAKARDNRNDIASFRQIGFDT FQTEVAQHFTDFRVAGFAFAID DSDLLVRLHFTALDAANADNA NIAVVIELRNLHLERTVKVNVNR RRNVVNNRLVQRGHVFRHIFV VQTRDTVQRRSVNDREVQLLV GRVEVNEQIEYYADAFVIMLER LCKVLCCR
25081	55449	A	25219	1	2583	

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25082	55450	A	25220	278	787	TLLSATRQVYALLSTKPAFFSS HSSFSTSSRLISSRAASSMDVAF PIAFSASKTVSIKFFSR*KLLRNS HRPPFMVMRSIIRSPSNVFMAS* FRFVSIPTLRIDAVRRSTIWCSTT ARFSSRADAKFIKNVFQQAIPDS AAKWFFPVPGFPLNAKFVHPVI SSSAMDFA
25083	55451	A	25221	866	1144	
25084	55452	A	25222	19	1203	NWNLTPYASLTGFTADNPEYH LSNGMKSKSVDTRSIYRELGAT LSYNMRLGNGMEVEPWKAA VRKEFVDDNRVKVNSDGNFVN YLSGRRGIYQAGKDLDRFKNL VLVHAARYAADLSYLPLMQEL EKRYEGKLRIQTVVSRETAAGS LTGRIPALIESGELESTIGLPMN KETSHVMLCGNPQMTRRLIPAS VEVYHDSLCKRKIWHGWEQHIT ARYLVGADGANSMVRRHLYP DHQIRKYVAIQQWFAEKHPVPP YSCIFDNSITNCYSWSISKDGYF IFCGAYPMKDGQTRFTTLKEK MSAFQFQFGKTVKSEKCTVLFP SRWQDFVCGKDNAFLIGEAAAG FISASSLEGISYALDSTDILRSAL RKPIRTEQGANGAIRELEKFRPA
25085	55453	B	25223	58	359	
25086	55454	A	25224	4	329	
25087	55455	A	25225	1	1008	
25088	55456	A	25226	1	1335	

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25089	55457	A	25227	3	1886	HRLNITAENDCRRLHCSLRDLS SLLQAVGRLAEYFIGDVFAARF NDALTVVERLVKVTLYGSQIKL YNIETAVPSVLKPDLDVHAQS LAGGCRLSAHWLAQYCSEIHR QNTQQFVTLISTTMDAITPLIST KVQDKLLLSACHLLVSLATTVR PVFLISIPAVQKVFNRTDASAL RLVDKAQVLVCRALSNILLLPW PNLPENEQQWPVRSINHASLISA LSRDYRNLKIPSAGAPQRKMPL DDTKLIHQTLQRLRKILWENIS GVESTKSSTDFAYQFGCRESV\Q VSLGLFPAFIHQSDVTDEMLSF FLTLFRGLRVQMGVPFTEQIIQT FLNMFRTREQLAESILHEGSTGC RVVEKFLKILQVVVQEPGQVFK PFLPSIHALCMEQVYPIAERPSP DVKAELFELLFRTLHHNWRYFF KSTVLASVQRGIA\EEQMENEP QFSAIMQAFGQSFLQPDHILFK QNLFVYL\ETLNTKQKL\YHKK\I FR\TAM\LFQFVNVLQ\VL\VH KSHDLL\QE\EIGHRHSYNMASV DF\DGFFAAFLPEFL\TSC\DGV\ DANQKSVLGRNF\KMDRLCPCL PGPAPHSRPMCTGWSTTCGLLT DSGNDSLAPWGLWKLLGPCLL PGGTRDFLLVAT

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25090	55458	A	25228	689	3053	VDCRMS/FSYIEKFTDFLRLFVS VHLRRIESYSQFPVVEFLTLFLK YTFHQPTHEGYFSCLDIWTFL DYLTSKIKSRLGDKEAVLNRYE DALVLLLTEVLNRIQFRYNQAQ VLEELADDETLDLDDQQTWQRY LRHSLEVVAKVMELLPTHAFST LFPVLQDNLAEVYLGLQQFIVTS GSGHRLNITAENDCRRHLHCSLR DLSSLLQAVGRLAEYFIGDVFA ARVNDALTVVERLVKVTLYGS QIKLYNIETAVPSVLKPDLDIVH AQSLAALQAYSHWLAQYCSEV HRQNTQQFVTLISTTMDAITPLI STKVQDKLLLSACHLLVSLATT VRPVFLISIPAVQKVFNRITDAS ALRLVDKAQVLVCRALSNILL PWPNLPENEQQWPVRSINHASL ISALSRDYRNLPKSAVAPQRKM PLDDTKLIHQTLVLEDIVENIS GESTKSQICYQSLQESVQVSL ALFPAFIHQSDVTDEMLSFFLTL FRGLRVQMGVPFTEQIIQTFLN MFTREQLAESILHEGSTGCRVV EKFLKILQVVVQEPGQVFKPFL PSIHALCMEQVYPHIAERPSPDVK AELFELLFRTLHHNWRYFFKST VLASVQRGIAEEQ MENEPQFSA IMQAFGQSFLQPDHFLKQNL YLETNLTKQKLYHKKIFRTAML FQFVNVLQVLVHKSHDLLQE EIGIAIYNMASVDFDGFFAAFLP
25091	55459	A	25229	1	853	MISVANEIAEAGFDPQGRSED LLDLAESRVFKIAESRANKDEG PKNIADVLDATVARIEQLFQQP HDGVTGVNTGYDDLNNKKTAG LQPSDLIIVAARPSMGKTTFAM TLVENAGRMLQDKPVLFISLE MPSEQIMMRSLASLSRVDQTKI RTGQLDDEDWARISGTMGILLE KRNIYIDDSSGLTPTEVRSRARR IAREHGGIGLIMIDYPLMRVP ALFDNRTLEIAEISRLKALAKE LNVPPVALSHLNRSLEQRAEER PGNSDLGESGSIEQDADLIL

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25092	55460	A	25230	206	1073	VKITSWLMSNSALPGTLKLLAL ILKCSTCVRVLPSELRLNER/Q GQLDSVGGFA/YLAEL/SKNTPS AANISA/YADIVRERAVVREMIS V/ANEIAEAGFDPQGRS/EDLL DLAESRVFKIAES/RANKDEGR NPMFDDRGRKGEPSDLIIVAAR PS/MGKTTFAMNLVENAAML/Q DKPVLIFSQTKI/RTGQLDDEDW ARISGT/MGILLEKRNIYIDDSSG L/TPTEVRSRARRIAREH/GGIGL IMIDYLQLMRVP/ALSDNRTLEI AEISRSLKHFEKLALICGCRNNG TTRYCKSLLA
25093	55461	B	25231	1	483	
25094	55462	B	25232	287	635	
25095	55463	A	25233	1	2469	MPSDISLASCLRLATSRLFTDHR RQSDCMTAINRIPIVDDNVR RFETHCANNVRTALHLFADIHP DVVLMDIRMPEDGIKALKEM RSHETRTPVILMTAYAEVETAV EALRCGAFDYVIKPFDLDELNLI VQRALQLQSMKKEIRHLHQAL STSWQWGHILTNSPAMMDICK DTAKIALSQASVLISGESGTGKE LIARAIHYNRRRAKGAFIKVC AALRESLLESELFGEKGLFER ANEGTLLLDEIGRM/PLVLQAIL RILQEREFERIG/GHQTIK/VDIAS LLAPTRLQAMVKEGTFREDLFY RLNVIHLILPPLRDRREDISLLA NHFLQKFSSNQDIIIDIPMA MSLLTAWSWPGNIRELSNVIER AVVMNSGPIIFSEDLPPQIRQPV CNAGEVKTAPVGERNLKEEIKR VEKRIIMEVLEQQEGNRTRTAL MLGISRRALMYKLQEYDATGF FRDGMTIMVGGFMGIGTPSRLV EALLESQVRDLTLIANDTAFVD TGIGPLIVNGRVRKVIASHIGTN PETGRMISGEMDVVLVPQGTL IEQIRCGGAGLGGFLNPTGVGT VVEERQTSIDTSTRKRPFELGRP SRNNDKGIRPRSGAGSEEPRT LHDSLKRLQTDYLDLYQVHWP LRPFYCFGKLGYSWTDAPAVS QLDTLDALAEYQRAGKIRYIGV SNETAFGVMRYLHLADKHDL
25096	55464	A	25234	1	891	
25097	55465	A	25235	1	1614	
25098	55466	A	25236	1	946	

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25099	55467	A	25237	1055	1474	NGVKS K P P P N H Q T G S A P G F S A I K N R T F A W P T L P N T S C W A N T M L I G S R E L G I R S S Q S G P L L G V R V W C / C R C R G T Q G / H S Q G K D G / I P E N G I R A Y K F T S S * A S F R N S A C F R Q P S R I K P L R K A T W L L C G L S T R H L I T K R L S S P D W A
25100	55468	A	25238	2036	2743	D L L I R Q M P L L S R R V I P V I R V P V T G V L W K S F T P R I T I F G H / A L I D Q H S M I V A A Q G L T P D H Q L L L Q I Y D R A R V S A S R I V H Q A Q I Y G D A V V R Y A F I E H R A E V F D F A S I E G N E E N N V W L C D C A K V Y G H A Q V K A G I E E D A I P T I H Y S S Q V A E Y A I V E G N C V L K H H V L V G G N A V V R G G P I L L D E H V V I Q G E S R I T G A V I I E N H V E L T D H A V V E A F D G D T V H V R G P K V I N G E E R I T R T P L A G L L
25101	55469	A	25239	2234	2571	I M S S V D S S L V L P L K A M V P S R I T L I R S A I W R I S G / R L M R D K N N T H A S S K Q L L Q A T K Q A F G F R R G K R G G R F I E D Q N P R V A H Q P A E D F H H L A I G D I Q R S C Q T M Q I K L A A Q R R Q Q V L H
25102	55470	A	25240	659	1206	W K S T S N T A K A K P G S V M A V D L R I P I R F G V M L S A A / F G D D V V D L I A Q V D L V T T A V G P V V L E R I A P A I A K G Q V K R K E Q G H E S P L N I I A C E N M V R G T T Q L K G H V M N A L P E D A K A W V E E H V G F V D S A V D R I V P P S A S A T N D P L E V T V E T F S E W I V D K T Q F K G A L P N I P G M E L T D N L M A F V E R K L F T L K H
25103	55471	A	25241	332	683	A L P G R * R H V H L P G S A Y E W N D A E P A Q E S D E L S K M L T A I C W L T A T A / S T S L K I * R * K V A L R C L V G R I R R L R R I R Q Q C Q L L M R R S R V L S G R L S S V
25104	55472	A	25242	1	841	M V K V A G E C R V R A S A H L P G L N R S T K N T E D R G A N N Q E G T N T Q K T R G E T N E R L K K N E H R D L R L A R Y P A K E N N K Q G D K N K P R T Y E K L T G T V T H Q E P P H A D Q S P G L C L F R T S R A Q V E R G P T V L L L I S Q E N Q I E R Y D S D N H S Q L N L C L R V P T V T T Q R R D Y D I A E R Y R Q K G I K L P A R K E R L M T I A E R L R Q E G H Q I G W Q E G K L E G L H E Q A I K I A L R M L E Q G F D R D Q G I A / R R A S C Q R Q Q R Q S S L P T P / E H C C A I S G A T A R K P A A L P A A R I R R I L V S I I R C T S G C P A L S G

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25105	55473	A	25243	240	651	RCPPQSCLLAEGRWCG*K/CRK VSV*SNRYR*SRLSLGELLKAYS RNRDLPGF/SSGSARVLVATDV AARGLDIKSLELVNFELAWEP EVNVHRJGRTARAGNSGLAISF CAPEEAQRANITSRPPHPAHIAS DHQSTP
25106	55474	A	25244	1455	1643	RDPHQICVAESVYLA AFVLLCA GLCVRRRSTTGARNA AAC*N GLW*AEAQCPAYYVCPVVG
25107	55475	A	25245	549	641	
25108	55476	A	25246	1378	2084	PNFGYSPPASSCGQVSQNSS*LQ CSVSGRDKMLRTGPCARTVSSS YLMGVSF SRDA**DAR*VCACH NTIAALSASAERFTSCERASHSE ARSGCCNSVRVMSNNPCCPRSL IGVYDILFFQESTAKRCKRSLSG SGSACGKSRVRFTPYRPARRTP LRSTTSPISAASFPSGWECAAS TCSAALRSTAITSLPSLAKFRAS SPSNSQTPRTAGLTGSAASESSI PQPQAAANS
25109	55477	A	25247	1134	1428	GPCGCCSSNVARCASQTSSRFA AV/WHGAIGAR*LNADNRPLWI EITREHAELPGKTGRRMETKQR RAITFTQRQNGFESHTPGA VFFS INNRCQFGDR
25110	55478	A	25248	96	535	RPQTTVQPALYVAEQSICSQPC* *FSTKCDRKPA AVLAPAGYAAL PVLFFSAKLDG SWLRWNSASG RRQNGSFSCAALASKRPASASS KLNSA**SLPSAVFAAPVRVAA SMIISGFCALASIRPSASTRRPSA SVFITSTFLPLR

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25111	55479	A	25249	1471	3026	SPLRSSVACRGWHRKNNRRGW CPRRGDPA RPVRDSLQHATAIII VATPGRLLDHLQKGTVSLDAL NTLVMDEADRM LDMGFS DAID DVIRFAPASRQTLLFSATWPEAI AAISGRVQRDPLAIEIDSTDALP PIEQQFYETSSKGKIPLLQRTL V RFANGSARVLVATDVAARGLD IKSLELVVNFELAWDPEVHVHR IGRTARAGNSGLAISFCAPEEAQ RANIISDMLQIKLNWQTPPANŠ SIATLEAEMATLCIDGGKKAKM RPGDVLGALTGDIGLDGADIGK IAVHPAHVYVAVRQAVAHKA WKQLQGGKIKGKTCRRRCYPLA APYVRHCSLVGRAASHQALWH VAGFGLYALFRRTGGCRLRCR YSGGLRLIRPTVAAGICRPDKT RKRRIHRAPFPDAARAPYPAY RSQYNQFFFTNSDFSFIGPKPSM LQSMLCAPCNQADVHFHGANV SASKSYLFTFRSLMMVTLSPCS QQIAVSIFNDQLVAFLCRFCVV PLRRHIHGQMYMPLSS
25112	55480	A	25250	196	330	
25113	55481	A	25251	62	617	NRRLPSGGDEMSAQVSLELHH R\SQFLVQESSCWTDW\KFRD GVAQLRPKEVRF\TMRTTVNGQ TRVPRKGVQPPTTWIFNDTKDQ LERRIARLETGMAWAEPPSRT RHLISNCQISETDIPNVFAVRVN YLLYRAQK\ERDETFYVGTRFD KVPPSE\DTTWRCCLKRDIVLDQ AVITSHNLSVLF
25114	55482	A	25252	1	318	
25115	55483	A	25253	1	510	
25116	55484	A	25254	9	79	
25117	55485	A	25255	1	361	
25118	55486	A	25256	863	1245	FSQIYLARSALSSAHSSRSPWQH SVWTLVRSVTNLETSANSALG NLWLRRAAHALKALSPNFWR LAHLSLCLADEAFSSRS/IIELW QQAGSFISSLATFCKSSFIPFSKE KEFRGIKVRMSSGNFI
25119	55487	A	25257	909	1069	GILSPFLVFVRVFKDQIVVDVW YYF*GLCSVPLVDISVLVPVPC FGYCSLVV
25120	55488	B	25258	1	1878	
25121	55489	A	25259	778	990	
25122	55490	A	25260	312	635	
25123	55491	A	25261	4047	4276	

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25124	55492	A	25262	1599	1776	WFPASSMSQPKKAQDQTDSP NSTRGTERS WYHSF*NGSKQ*K KSNSSPTHFMRPASS
25125	55493	A	25263	1	162	
25126	55494	A	25264	1	3370	MNRAPIPKQSKDKTSRETKNTS RSKTRERTDELEGLSTDNHAET QHAETNTDMTHERYTQIRNHT YKTT HQMEDKRTKPKREKEIH NRPDDMAKAGIPRSILNTGHPG KLMQTEVHHVRTLKIMLKVYS RALQEELQFSSKAIGRLFPCAD DLLETHSHFLAQTHERSGYVPL CVCATHTKFYEFMEDVNTAYT KRHTMFRSLSMVSECLFSLING DDMFVTF AAMQAQQGRSSLV WLFSQLYLYSFISLFIYMV
25127	55495	B	25265	44	238	
25128	55496	A	25266	1	444	MPAEFITG\ERS\SEGFFRIHAGI EQAISRGLAYAPYADLKNLDD KTIA SFQQQLSDMGYKFQFITL AGIHS MWFMFDLANAYAQQ EGMKHYVEKVQQPEFAAKKD GYTFVSHQQEVGTGYFDKVTTI IQGGTSSVTALTGSTEE SQF
25129	55497	A	25267	710	1395	DLPGISSKWVIAVIFGHLIVGIFI PPAIIVRAGIT*RQVR/WIAAHE GKAPQQIIIMAHLDTYAPLSDA DADANLGGLTLQGMDDNAAG LGVTLQLAERLKNTPT EYGIRF VATSGEEGKLGAENLLKRMS DTEKKNLTLVINLDNLIVGDKL YFNSGVQTL E ARHQRSFNTVKP WPDSVISNRPFAGNTGSVDDND EIQRNLNDTNYNRMWEYNNRG VGSKVVAEAKK
25130	55498	A	25268	2	2105	
25131	55499	A	25269	754	1133	RAANQHQTVDLTRLQTRIAQR LFNRHSQAIEQRQPQIFQFVLVK FAFPRFFLILPANVQWR LIATFC RFHTGVQGCQFTLVKRGPGDIR DYQQTNLDWYNSRNTTKLDES VNRV/HAAIQS*RQNGL
25132	55500	B	25270	1	1275	
25133	55501	C	25271	1	1167	

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25134	55502	A	25272	275	2424	SPAMHFQSFT/WQNNLDDNTIASFQQHLSDMGYKFQFITLAGIHSMWFNMFDLANAYAQGEGMKHYVEKVQQPEFAAAKDGyTFVSHQQEVGTGVYAASGNSLLLMRALNAAWPGIIDCSNHFARLRCSVWSIPRSDLRCAAAFRTGRLACCPAGDEKPYPSLRSSRWSGRGATALHYTAKRCRDPKTRQRRIRQPARALDVGCGVTALSDLPGCRTSQRCRDPKTRQRRIRQPARALDVGCGVTALSDLRGAALHGLSANYRVVNFLFRLPDAMILSVLLRSCPFVFP LLRRLRAGAPVGPYCTGTPITPLPSTRLFAPLPNRC SMAGMYGGLQVPVHPAIGARCLMRCLTHLIRPTMTGSMAEELGTSFKRLCAHYSRMRCWRILSGLRGARPNKIVCRIRRLRRIRPILRLRFPRHSRVVFIFGGGNPRRAKQRQTGEEVEKCHQPQHGTKCCARGGFAACLVFEYVVVFWTSLPDSFCRKSFPTRIRGSMVPSLWDFPPGVDGRKGKTSWNGVPGPCVTCGLGLTCPESPCCPGLSLGDGYPEKVSVPPIPLKFQAILQAFHEIFGEGSCHIASVAVESGVPEQPFGEETRAGARNRVANARRLLPEADFWVAIEAGIDGDSTFSWVIENASQRGEARSATLPLPAVILEKVREGEALGPVMSRYTGI DEIGRKEGAIGVFTAGKLTRAS
25135	55503	A	25273	1	441	
25136	55504	A	25274	3	2919	AVSNCSEGLSKEWGPRPCRHRGMEKLPLGGKFWPTQ/EAVRTVRARLQAD/VTGVPTVLVARTDADASDLITSDCDPYDSEFMTGERTSEGFFRTHAGIEQAISRGLAYAPYADLVWCETSTPDLELARRFAQAIHAKYPGKLLAYNCSPSFNWQKNLDDKTIASFQQQLSDMGYKFQFITLAGIHSMWFNMFDLANAYAQGEGMKHYVEKVQQPEFAAAKDGyTFVSHQQEVGTGYFDKVTTIIQGGTPDKAFT
25137	55505	A	25275	432	549	

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25138	55506	A	25276	652	2689	KFSVGYAVQNFNATVSTKQFQ VFSEQN'TSSYFAEPQLDVNYYQ NDVVHFVTTTRDDMPEATRVHL EPTINLPLSNNWGSINTEAKLLA THYQQTNLWDWYNSRNTTKLDE SVNRVMPQFKVDGRMVFERD MEMLAPGYTQTLEPRAQYLYV PYRDQSDIYNYDSSLLQSDYSG LFRDRTYGGLDRIASANQVTTG VTSRIYDDAAVERFNISVGQIY YFTESRTGDDNITWENDDKTGS LVWAGDTYWRISERWGLRGGI QYDTRLDNVATSNSSIEYRRDE DRLVQLNYRYASPEYIQATLPN VNHITMEHLHMKTRTQQIEEL QKEWTQPRWEGITRPYSAEDV VKLRGSVNPECTLAQLGAAKM WRLHGESKKGYINSLGALTG GQALQQAAGIEAVYLSGWQV AADANLAASMPDQSLYPANS VPAVVERINNTFRRADQIQWSA GIEPGDPYVDYFLPIVADAEA GFGGVLNAFELMKAMIEAGAA AVHFEDQLASVKKMRHMGRT ASDQPWLAYAPYADLVWCEPP PPDLELARFAQAIHAKYPGKL LAYNCSPSFNWQKNLDDKTIAS FQQQLSDMGYKFQFITLAGIHS MWFNMFDLANAYAQGEGMK HYVEKVQQPEFAAAKDG YTFV SHQQEVGTGYFDKVTTHQGGT SSVTALTGSTEEESQF

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25139	55507	A	25277	134	1695	FPDPARLPPVSVNHHITMEHLH MKTRTQQIEELQKEWTQPRWE GITRPPYSAEDGGKLRGSVNPEC TLAQLGAAMWRLHGESKK GYINSLGALTGGQALQQAKAGI EAVYLSGWQVAADANLAASM YPDQSLYPANSVPAVVERINNT FRRADQI/QWSAGIEPGDPRYV DYFLPIVADAEAGFGGVLNAFE LMKAMIEAGAAAVHFEDQLAS VKKCGHMGKKVLVPTQEAIQK LVAARLAADVTVPTLLVART DADAADLITSDCPYDSEFITGE RTSEGFFRTHAGIEQAISRLAY APYADLVWCETSTPDLELARRF AQAIHAKYPGKLLAYNCSPSFN WQKNLDDKTIAFQQQLSDMG YKFQFITLAGIHSWFMFDLA KAYAQGEKMKHYVEKVQQPE FAAAKDGYTFVSHQQENRSSK QQQPLLTVGRIRRSRRIRQSVPR TGIGCASRRFNTAKPWADAVIS NRPFAGNTGSVDDNDEIQRNLN DTNYNRMWEYNNRGVGSKV AEAKK
25140	55508	A	25278	230	380	
25141	55509	A	25279	432	1247	PSQEPSVHGRWMA*KGHSRIV* WRAYD*THFNPVLKKSLSLGS NIRHMLAEEATTEELDGTGPV LV*PNRH*PAYWMRAYLNLKK MSCRSFRRKA*RW*CETQTVV HRDRVDQGNHFDVVARHYH LYAFLRKERQLIFFKFKYARIQY AG
25142	55510	A	25280	243	430	RRPSYSVLQRLPSAVLLPYY*R DWYHRTAGRRRDGNAGRQHQ NGCYPDPDRDGRSAFRNP
25143	55511	A	25281	10	638	SSVPTAGSRYNHLRAPRYSPLF ANYSMSDRCCPFG/LDSSTG* WFQ*RSVPLPILLPDTSRHQL*C SDPTRNGPAIQACQRFHIVERV ARVHHARFAATVTVDHVVIDQ RFFQICRT/PWCRLHRHHWRSSS GTR*TF*SPARHFCLLHNDSSYR STARPTCSGTDVDRRCSDAHL CDHWSGSRAHADTDAECWCL NPQPAPSLQCRR
25144	55512	A	25282	803	1622	
25145	55513	A	25283	498	686	RRPSYSVLQRLPSAVLLPYY*R DWYHRTAGRRRDGNAGRQHQ NGCYPDPDRDGRSAFRNP

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25146	55514	A	25284	1	2063	MKNFMENVLRYLSDDKWKPD AKASMTVGTLNLDTVYFKRHGQ VTGNSAAFDFHPDFAGISVEHL SSYGDLDPQEMPLLILNGFEYV TQVGNDPYAIPLRADTSKPKLT QQDVTDLIAIYLNKGGSVLIMEN VMSNLKEESASGFVRLDAAG LSMALNKSVVNDPQGYPNRV RQQRATGIWVYERYPAVDGAL PYTIDSKTGEVKWKYHVENKP DDKPKLEVASWLEDVDGNRKR NFSNDARANGTAAFTDCETQT VVHRDRVDQGHNFHDLVARH YHLYAFRQFDGTSHVSSTEVEL RTVAFEERSMTAAAFISWTECTL QIRTCPQNPTGKVWTCDELEIM ADLCERHGVVRVISDEIHMDMV WGEQPHIPWSNVARGDWALLT SGSKSFNIPALTGAYGHIENSSSR DAYLSALKGRDGLSSPSVLALT AHIAAYQQGAPWLDALRIYLK DNLTYYADKMNAAPPELNWQIP QSTYLAWDLRPLNIDDNALQ KALVDQEKVAIMPGYTYGEEG RGFVRLNAGCPRSKLEKGVAG LINAIRAKKSATMIDTTLPLTDI HRHLDGNIRPQTILELGRQYNIS LPAQSLETIPHVQVIANEPDLV SFLTKLDWGVKVLASLDACRR VAFENIEDAARHGLHYVELRFS PGYMAMAHQLPVAGVVEAVID GVREGCRTFGVQAKLIGIM
25147	55515	A	25285	3	371	
25148	55516	A	25286	63	180	
25149	55517	A	25287	2	205	
25150	55518	A	25288	495	707	REFSSHQKGLRDRPAHKAVLG DNQLFSGGTGAPVWPG/HSENV VPVDPTMKRLPDDVNHPALDY YWRLSFA

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25151	55519	A	25289	1	1713	MTWAYSPSYGKPLSVPGIIGL MTRFGMDVTLAHPEGYDLIPD VVEVAKNNAKASGGSFRQVTS MEEAFKDADIVPKSWAPYKV MEERTELLRANDHEGVK\APEK HCLAQNAQHK\DWHSIEEMM EP\TREGEAQNKHGRPAEINGA SCKEGRSDQKAYDEKSRPDEM PIDDNVVLNKGDLVQVSGDAR RVKTIADRIGFISIHSQVTDLLAF CAFFVIGLMIGMITFQFSTFSFG MGNAAGLLFAGIMLGFMNRNH PTFGYIPQGALSMVKEFGLMVF MAGEIQVDGNTIYPHIWKSCDG GVLFAKQYLLRLGIILYGFRLTF SQIADVGISGIIIDVLTLSSTFLL ACFLGQKVFGLDKHTSWLIGA GSSICGAAAVLATEPVVKA EAS KVTVA VATV VIFGTVAIFLYPAI YPLMSQWFS PETFGIYIGSVIEV GVDVPNASLMIIENPERLG LAQ LHQLRGRVGRGAGLLTACCST KRRFLKAAPEVTRTGLADDRSS GLPLQTYELASMQGLVDVVR LSPQGTDTFAMLD AFRANENG AAPLPLTANSDCNGYWRRLAG
25152	55520	A	25290	629	1054	ASGRFREVTG/MEEAFKDADI/V YPQSWAPYKVM EERTVLLRAN DHEGLKA\LEKQCLAQNAQHK DWHCTEEMMELTRDGEALYM HCWPADISGVSCKEGEVTEGVF EKYRIATYKEASWKPYIIAAMIN CPVNTPNQVHCSSNC
25153	55521	A	25291	235	780	
25154	55522	A	25292	1	2783	MTYRNNHQTGVAFLFQTKFCIE DGGVKTFDGYRVQTQSRHAEQ EVT DVEINLFCHPLCIIMQIFTV HISEELATFIVRGFRFRGKAAI GIFLVNNQLQPDIVHRGFCTEH HDVRGIKHFTLVEHVITGSGFG NTRFTFFRAGNNKMPRLGVGA GWAVLQGVVRFVWPLPEYP AYACGKFNGAIRAGDAAQLAA YAQAFIQLHGPI DAGDGVNRA DHRAGDFFEIVFQNLFAIADVD LAINHAVNAQLRLRNP

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25155	55523	A	25293	365	722	TSCLSALAIK/QQHLDEKKELG HLSAGARRLILGIIIVTF/CADSG VNLRYSAV*PAGAVYLPDAAV GGSADRTADAGALLGANVDCA VADRFLPLYLVALHLYAELGRS GQPGVRAYSALR
25156	55524	A	25294	798	1094	
25157	55525	A	25295	1	2780	MGIVASASVQAAEIYNKDGNK LDVYGKVKAMHYMSDNASKD GDQSYIRFGFKGETQINDQLTG YGRWEAEFAAWTDMFPEFGG DSSAQTDNFMTKRASGLATYR KTTSSAYRWPELNLQYHRCTS AARAMLLSGRPVMQINERTAV RRQMTVYLRLVERIHEIDPLVSL SHSMSVIPIDVERPIAAAPCTPG LWRTKTPLRVPSTYPLRLPGRA RVVCHRTFRLHLCKDWVFMFS GLLIILVPLIVGYLIPLRQQA
25158	55526	A	25296	66	300	QSTYCDNPPVPVSRGL*P*RRSS STSSAGYQK*RYCQHRHDPASR IRTVQRTDSQRTVVKRKFMLLVP EASVPASEIC
25159	55527	A	25297	240	424	RCSRDEHDFQLIANLRIVVITFA TFA*CTA*LPLGNHVSVAAH*A G*GGAPVTAQVFVQHG
25160	55528	A	25298	1	1425	
25161	55529	A	25299	1	471	
25162	55530	A	25300	1269	1390	
25163	55531	A	25301	601	1119	VAAGAV*RGH*NVQLGKLFFV ASDLRINAIAGGVVVS*FIQGL TNAIGSGFNNAARCKPTGQVA ADGGRDAGFFTIANNQCTYAA GIFFQCSGEFVGIFQFAIAGIGR DTNLRQRFIAGRTDGITQHRFQ LRLNRPQRGVAEQCTIARTLAIS SRMAVYLVRLKVSISEL
25164	55532	A	25302	1666	1769	RLKRHPPLRPSWPPY*TGAVHW HFSPLANWKPGI
25165	55533	A	25303	1	1970	MKDDIFFRTSGGGVTLSGGEVL MQAEFATRFLQRLRLWGVSCA IETAGDAPASKLLPLAKLCDEV LFDLKIMDATQARDVVKMNLP RVLENLRLLVSEGVNVIPRLPLI PGFTLSRENMQQALDVLIPLNIR QIHLLPFHQYGEPKYRLLGKTW SMKEVPAPSSADVATMREMAE RAGLQVTVGEKWGVSIETQGA LGTENRLADEDIRRADVALLIT DIELAGAERFEHCYVQCSIYA FLREPQRVMSAVREV

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25166	55534	A	25304	2804	3494	LSLAEWKCLNPSQRALYREVM LENYRNLEAVGQLQPQSTQRIP *GRICNGDRLTSQKGLDL\VLEA LPGLL\EQGGQLALLGAGDPVL QEGFLAAAAEYPGQVGQVIGY HEAFSHRIMGGADVILVFNRF PCGLTQLYGLKYGTLPVRRRTG GLADTVSDCSLENLADGVASG FVFEDSNAWSLLRAIRRAFLW SRPSLWRFVQRQAMAMDFSW QVA\AKSYRELYYRLK
25167	55535	A	25305	1	1306	
25168	55536	A	25306	818	1658	
25169	55537	A	25307	2611	2826	
25170	55538	A	25308	609	2359	PPPKIAPVWGCRKKS LPARSKSI FCFALFFPFLNGEILPESPCPF WTLFRNDGGKKRDPLAPVYLL GKLTISPGPICPDMIGVLFSTV RREVAHIGNVQHRFCGPLFLKL VEFIDFILTIDIAAHRQYLVICE VDQRINQIAIATRIFRTGYTAAD LRQHLMQLLIFLVVTRFVALT TQFFHFFRCVTKNKDIVSTDMI QHLDIRTVQRTDSQRTVKKRLH VTGAGSFRPCQRNLFQRICRRN DQLRQANAVVRDEHDFQLIAN LRIVVDHFRYVIDQMNNVLRH VIGRSRLTAKNIHARYPLRIRVG LDAVIAEMASGLDPFWRPDVV HAHDWHAGLAPAYLAARGRP AKSEFTVHNLAYQGMFYAHH MNDIQLPWSFFNIHGLEFNGQIS FLKAGLYYADHITAVSPTYARE ITEPQFAYGMEGLLQQRHRERR LFGVLNGVDEKIWSPETDLLLA SRYTRDTLEDKAENKRQLQNA\ MGLKVDDKVPLFAVVSRLTSQ KGLDLVLEALPGLLEQGGQLA LLGAGDPVLQEGFLAAAAEYP GQVGQVIGYHEAFSHRIMGGA DVILVPSRFPCGLTQLYGLKY GTLPLVRRRTGGLADTVSDCSLE NLADGVASGFVFEDSNAWSLL RAIRRAFLW/WSRAGSWRYSAR AIRCCRKVSLRRQRNTPVWAF RLAITKHFRIALWAARTSFWCP

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25171	55539	A	25309	1028	1632	TSASAGTARNFSSNFAVRTTGH STSEATSSSRLSLKSALPPILRAA SSASALMFFVIGDDFPTSRRI SGY*SALSMVN SGSPIKWPRITRSD*MPRMVA GMTLSPSSRVTVCTGR TKCTSLAPQRISFGIGSF AREVATIFGSSASV FRR*YRNHAPNLLTLC SVCLQRRTPGQSPG RVFRFHD PVAFRQVS YFQRQTP IA
25172	55540	A	25310	1	336	
25173	55541	A	25311	1889	2257	SAMTFPRSRRI SGY*SALSMVN SGSPIKWPRITRSD*MPRMVA GMTLSPSSRVTVCTGR TKCTSLAPQRISFGIGSF AREVATIRRPYR DIKEGFSQ REAALLPQSLRV PQTGTWSAAGAQA
25174	55542	B	25312	1	735	
25175	55543	A	25313	1439	1744	SAMTFPRSRRI SGY*SALSMVN SGSPIKWPRITRSD*MPRMVA GMTLSPMQQGHVPWQ LMVVLWNTRQRWKPSS PDYVNRAMS LPSRKGEMLK PAPCRK
25176	55544	A	25314	1209	1972	SAMTFPRSRRI SGY*SALSMVN SGSPIKWPRITRSD*MPRMVA GMTLSPSSRVTVCTGR TKCTSLAPQRISFGIGSF AREVATIFGSSA SV/HFALHMGAIQ QPFAFIGSQT LSLVNGNTATT PQPSAALLGLP SASNAWAIAGPR FSISRSGCASA RLATFSARRRG ASKPLNGCLLR ATLSSPDKFQ QGSTGGMLWGV LRHSPKFSIT ADGREFTLHWP NTGAMTGCATP GEYVWYSTFDN TQRKYPHPWEL

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25177	55545	A	25315	1	1521	METQHRLMRTFQPRQQDWTY ALWGGVKLRWLFFFLWGLFLF AGEEELGIRQTRTNDLFTGDN LLRIFRFDVGNEDKVRQQFAVV RIHREVFLVTFHGVNQRFSRHR EEFLFEFCVTPKLNEGTTQRTN NRGIAVLNTGHRHPDLVAAVE QQLQQFTHTAYQIVPYESYVTL AEKINALAPVSGQAKTA\FFHP GSETG\ENGVKMVR\AHTGTPG V\IAFRGG\FHGRTYMTM\LTG KVAPYKIGFGFPFAGSVYHVPYP SDLHGISTQDSLDAIERLFKSDI EAKQVA\A\IFEPVQGE\GFNVA PKELV\A\IRRLCDEHGIVMIAD EVQSGFARTGKLFAMDHYADK PDLMTMAKSLAGGMPLSGVVG NANIMDAPAGGLGGTYAGNP LAV\AAH\AVLNIIDKESLCERA NQLGQRLKNTLIDAKESVPAIA AVRGLGSMIAVEFNDPQTGEPS AAIAQKIQRRALAQGLLLTCG AYGNVIRFLYPLTIPDAQFDAA
25178	55546	A	25316	114	187	RSTISSVRYGDDAFKP*RQAWN VL
25179	55547	A	25317	105	317	YLFFLSRFNHWISMEKKLGLSA LTALVLSSISWARVFSVCRKIW RQLPARQHCSSAGVLLALAFYC WPLPC
25180	55548	A	25318	1	593	
25181	55549	A	25319	1	729	
25182	55550	A	25320	1	1005	
25183	55551	A	25321	1	1361	
25184	55552	B	25322	1	2793	
25185	55553	A	25323	27	255	

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25186	55554	A	25324	225	1408	RIIYMHMESQKIWFALSTPMEIR NECCLPSHSSPKMYLGACLFPL SSSWGIDDRDDLRTIHRMIDN GHAARLAGFYHRWFRYSPCEW RDYLAELNEQGQAYAQFVAST AECCGEGGIKAWDYVRMGFLS RMGVLNNWLSEESLWIQSRIH LRALRYYSNWRQYFAGYTFGR QYWQSPEDDHLPLREFLAQET TDVDIIRRAYLALLPSFHTETDP QGFKQLRHAYDDALPIAQSPAK SVLQPEEYEWALLVEMLGLL HRIAMVQLSPAALGNDMAAIE LRMRELARTIPTDIQLYYQTLL IGRKELPYRTCQLHACTSADTP LRKIPRFSGLHFYAFCPNIYSS YHSAAKYGGSCQPGSTAHLRG YYWRWHFIAGLCHADPHAHSS
25187	55555	A	25325	230	380	
25188	55556	A	25326	432	1247	PSQEPSVHGRWMA*KGHSRIV* WRAYD*THFNPVLKKSLSLGS NIRHMLAEATEELDGTGPV LV*PNRH*PAYWMRAYLNLKK MSCRSFRRKA*RW*CETQTVV HRDRVDQGNHFDVVARHYH LYAFLRKERQLIFFKFKYARIQY AG
25189	55557	A	25327	10	638	SSVPTAGSRYNHLRAPRYSPLF ANYSMSDRCKPFG/LDSSTG* WFQ*RSVPLPILLPDTSRHQL*C SDPTRNGPA\QACQRFHIVERV ARVHHARFAATVTVDHVVIDQ RFFQICRT/PWCRLHRHHWRSSS GTR*TF*SPARHFCLLHNDSSYR STARPTCSGTDVDDRCSDAHL CDHWSGSRAHADTDAECWCL NPQPAPSLQCRR
25190	55558	A	25328	803	1622	
25191	55559	A	25329	498	686	RRPSYSVLQRLPSAVLLPYY*R DWYHRTAGRRRDGNAGRQHQ NGCYPDPDRDGRSAFRNP

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25192	55560	A	25330	1	2063	MKNFMENVLRYLSDDKWKPD AKASMTVGTNLDTVYFKRHGQ VTGNSAAFDFHPDFAGISVEHL SSYGDLDPQEMPLLILNGFEYV TQVGNDPYAIPLRADTSKPKLT QQDVTDLIAYLNKGGSVLIMEN VMSNLKEESASGFVRLDAAG LSMALNKSVVNDPQGYPNRV RQQRATGIWVYERYPAVDGAL PYTIDSKTGEVKWKYHVENKP DDKPKLEVASWLEDVDGNRKR NFSNDARANGTAAFTDCETQT VVHRDRVDQGHNHFDLVARH YHLYAFRQFDGTSVVSSTEVEL RTVAFEERSMTAAFISWTECTL QIRTCPQNPTGKVWTCDELEIM ADLCERHGVVISDEIHMDMV WGEQPHIPWSNVARGDWALLT SGSKSFNIPALTGAYGHIENSSSR DAYLSALKGRDGLSSPSVLALT AHIAAYQQGAPWLDALRIYK DNLTYYADKMNAAPPELNWQIP QSTYLAWDLRPLNIDDNALQ KALVIDQEKVAIMPGYTYGEEG RGFVRLNAGCPRSKLEKGVAG LINAIRAKKSATMIDTTLPLTDI HRHLDGNIRPQTILELGRQYNIS LPAQSLETIPHVQVIANEPDLV SFLTCLDWGVKVLASLDACRR VAFENIEDAARHGLHYVELRFS PGYMAMAHQLPVAGVVEAVID GVREGCRTFGVQAKLIGIM
25193	55561	A	25331	2	696	FLLLLWEIRKSSQQTTPTEMNA AEMAQLVAGVDEVGGRPLVG AVVTAAVILDPARPIAGLNDK KLSEK'RRALALYEEIKEKALSWS LGRAEPPEIDELNILHATMLAM QRAVVGLHIAPEYVLIDGNRCP KLPMAMPAMAVVKGDSRVPEISA ASILAKVTRDAEMAALDIVFPQ YGFAQHKGYPTAFHLEKLAEH GATEHHRRSFGPVKRA/LGTCV LILVSRLSKPESEDVL
25194	55562	A	25332	2	63	
25195	55563	B	25333	138	182	
25196	55564	A	25334	356	706	ISDICAPNMVSAIHAIPYTATMA IIPERKTSFFEIDAGLVLRJIIISA PVSSINI*ITSTIDSGLPPKDGRRS ESAPRRATTAIAPRKIIHASQLL VVIIIRSLVGCRMRRWRVLSD
25197	55565	A	25335	1746	1873	

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25198	55566	A	25336	1998	3626	PKAARMANVPNNTTGTAMVGI SVA/RHILQEQIHHQEHQHNGFE QRFYHFVNRKLDEWRGVIRVE NLHS/AAGRMAVIPPVLP*WLS RYREHSRRLPA*SPKGAAASNP EVIARTLRKLKNQPELSEDTIKK AVESLSLELVLTAHPTEITRRTL IHKMVEVNACLKQLDNKDIAD YEHNQLMRRLRQLIAQSWHTD EIRKL RSPVDEAKWGLCRNGK TACGKAYQITWAE\LNKQLEEK PRLQTCPSKFGSGPFYF
25199	55567	A	25337	243	604	PRFPFPLPPATSSVQTAMTDG*N ECERICVGYLRYSSHSAPDARR QRARTHVPVGKHALPALTKAT HPSWWWQCAAMAEDSTDARQ LKA*WGVNGFLDLRSATMDGR LYPVAMCLLPATK
25200	55568	A	25338	1	3287	MPITLRRSVEKEQLIEIANTIMPF GKYKGRRLIDLPEEYLLWFARK DEFP AEARYTHIDLHVPAPLLV MFTLDTRQSACDRNPHLPIHVC SSWTSPKCAPRLWTRALLPRTR TPPYATGTTIGSRASWFVTFPD ASFYRRKAPRQEFHTSLQGRSL YVRQRSTANPTEITRRTLIHKM VEVNACLKQLDNKDIADYEHN QLMRRLRQLIAQSWHTDEIRKL RPSPEAIMTEQEKTS AVVEETR EAVDTTSQP VAT
25201	55569	A	25339	1	1425	
25202	55570	A	25340	534	1391	RQKRRLYQTYWYKQQPRYLPP EHRQRHRHQSAGVSRPYSGYG EVRPLSQYQPEWQCWEPDVEW VRQPPQDAITDPDFCFYQPGM TFEQFVREFAEWFSQKRPAAM MIGIRADESYNRFVAIASLNKQ RFADDKPWTGGHSWYIYPIYD WKVADIWTWYANHQLCNPL YNLMYQAGVPLRHRMICEPFG PEQRQGL\WLYHVIEPDRWAA MCAR\VS\GYTTGGLYPGQARG AAV*TEALKPSGLPQVCALNQC LLSVHRYAGHVRQERCDGADG RPAVHERRQLL
25203	55571	A	25341	786	1009	HHSHEQQFQWPVGASGVDRW AVYLHQICPLTQFQY/WCRARQ EGIMSSPGQVGFIA*VTSSFSF R*KGRRVSSA
25204	55572	A	25342	2446	2970	
25205	55573	A	25343	1	2184	

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25206	55574	A	25344	706	1293	IHRLLIRRIHQIIDLRIWQRTVEI HGAPVRFIQMAAWTHIAVLLT* QLRQLRAGFQRNSWAIFYFFHH RKQYIFHFDLRRFPVIMHALFC AVQRCADLMAHRRQKRRECLA GFFCFRPCLSVFYHQFLQFSCTR FDLRRQLFAVAIQCMNIAFAAA LVDFDLPDIDGITLARQLAQQY PSLVLIGFSAHVIDETLQ
25207	55575	A	25345	1	3291	
25208	55576	A	25346	882	1019	
25209	55577	A	25347	1	2265	
25210	55578	A	25348	284	535	CVAASVTGTRVLIPLLNNRSR RSPVRYVSKGNWWGSVCNCAS NNSNSVSR*SLPPMRSHAWRKV RRIMRQLPLERPRPGFTI
25211	55579	A	25349	131	208	LVRWLLSPGW*WKISPIISICLFP V
25212	55580	A	25350	1	3108	MDSQDKYFEATQTVYEWCGV ATQLLAAYILLFDEYNEKKASA QKDILIKVLDDGITKLNEAQKS LLVSSQSFNNASGKLLALDSQL TNDFSEKSSYFQSQVDKIRKEA YAGAAAGVVAGPFGLIISYSIA AGVVEGKLIPELKNKLKSVQNF FTTLSNTVKQANKDIDAAKLKL TTEIAAIGEIKTETETTRFYVDY DDLMLSLLKEAAKKMINTCNE YQKRHGKKTLEFETYLTDPVTF RERLQMSIYKIPLPL
25213	55581	A	25351	1	296	
25214	55582	A	25352	3	164	VGD/NVGTTARWGIFALIIVETL AWFTVVASLFAQHKQRAENLI QRLHLLWSFNP
25215	55583	B	25353	91	990	
25216	55584	A	25354	1146	1881	RCGVQ\WTMYIRAVFVNLNTP KSIVFLAALFPQFIMPQQPQLM QYIVLGVTIVVDIIMIGYATL AQRIALWIKGPKQMKALNKIFG SLFMLHNAFAWFYLGAFLLTVI AWFLLGNAQKMPQTTLQWGIL VFLGVVASGIGYFMWNYGATQ VDAGTLGIMNNMHVSAGLLVN LAIWHQQPHWPTFITGALVILA SLWVHPNKRFRNWLTLIAIAH GGVQSAPQAFAQGGFGHHQTLA LKTLYYPMR
25217	55585	A	25355	1943	2287	
25218	55586	A	25356	44	274	

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25219	55587	A	25357	876	1400	YRHVRDSPGNDRLFETWRSAG CAARLLRQSGETRLLSRVVVDY GGRWPVSLLDGLPDATWCTEK RGGFCTCATGRAGEKWAQFPE\ SLLTNLANPKAIIYFGSVFSLFV GDNVGTARWGIFALIIIVETLA WFTVVASLFALPQMRRGYQRL AKWIDGFAGALFAGFGIHLIISR
25220	55588	A	25358	1	1428	
25221	55589	A	25359	421	797	IIFPFLFHLCNQLSHLLQYAVV NAPVRRILPIQLLWQQLIQPGEK LKSIRRAIQHIGQTQIIGMFIQMP IMIAYETDRATGDGI/WAAH*T HEYPCHVRQSQFHENHDDVQE NPPHPWKIQTPGH
25222	55590	A	25360	1	1320	
25223	55591	A	25361	1	1251	MLLSIITVAFRNLEGIVKTHASL AHLAQVEDISFEWIVVDGGSND GTREYLENLNGIFNLRVSEPD NGIYDAMNKGIAAMAQGKFALF LNSGDIFHQNAANFVRKLKMQ KDNVMITGDALLDFGDGHKIK RSANRAGLFLIGYGAFRIVEFF RQPDAQFTGAWVQYISMGGQILS IPMIVAGTMKQYLELMQKVLD EGTQKNDRGTGTLSIFGHQMR FNLQDGFPLVTTKRCHLRSIIHE LLWFLQGDTNIAYLHENNVTI WDEWADENGDLGPVYVITTVL NQLKNDPDSRRRIIVSAWNVGE/ LDKMALAPCHAFFQFYVPDGK LSCQLYQRSCDVFLGLPFNIAS YALLVHMMMAQQCDLEVGFV WTGGDTHLYSNHMDQTHLQLS REPRPLPKLIIRKPESIFDYRFE
25224	55592	A	25362	3	1327	

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25225	55593	A	25363	1	2443	MGLIGFVLTALWIKLIHNPTDH PRMSAEELKFISENGAVVDMD HKKPGSAAASGPKLHYIKQLLS NRMMLGVFFGQYFINTITWFFL TWFPIYLVQEKGMSILKVGLVA SIPALCGFAGGVLGGVFSDYLI KRGLSLTLARKLPIVLGMLLAS TIILCNYTNNTTLVVMLMALAF FGKGFGALGWPVISDTAPKEIV GLCGGVFNVFNGNVAIVTPLVI GYEVSELHSFNAALVFVGC SAL MTMSARSATGHECVFWCNGKP RRLAMRLIYWCAAAPTGDVVQ KLTGKWALIANSHRAGQPTRN VNEEVGQRLLEEMEWYDNYL NMGKTDRSANPSPGNKKGGLA NVVEKALGSIKSGKSAIVEVL SPGQRPTKRGLIYAATPASDFV CGTQQVASGITVQVFTTGRGTP YGLMAVP/SH*NGNWKITASVT SIQPNTNELPNCCMNGVSTANT TSKSSLVICALR

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25226	55594	A	25364	1	2701	TFFLPAGEILPPRLEPQITLPVGS KRIISIAVTDLPEPESPHLRSLG WASLCCFMVICKFFPAAEGLIL AAVCDSSRGSRWCNGNRRYG YASDLLVRCGATVMFSEVTEV RDAIHLLTPRAVNEEVGKRLLLE EMEWYDNYLNMGKTDRSANP SPGNKKGGLGKRGSSKALWLP LLQIQARKQVGLRVYTVACVL RTGTWYDRNGPDWRVPGQLN MGNPAPETGRYRLAHPATPHD PRTTPDHPSHIKPHAPTNQQPDT LTPTHHHHTDTRDPSPPPRTRT PRQSTHTTTPPHPTTTTRHTDIHP PTHTNPPPTRVLTRQLHHTNRI IPHRTHTTTCRRNHHNQMNNTT PPPPHTPQITHRHNTTLREQTQ KHRQHIHGTQHHTTRKPPTPTT RQYNTSIVGTIGGG\MVERKVIE ESLQALQERKPRLFHGRMARN GADAVGSDCGGAMSVFISVHG MRPRLVLIGAGHVNRAIAQSAA LLGFDIAVADIYRESLNPELFPP STLLHAESFGAAVEALDIRPD NFVLIATNNQDREALDKLIEQPI AWLGLLASRRKVQLFLRQLRE KGVAEEHIALRHAPVGYNIGAE TPQEIAIRVLAELQVKNNAPGG LMMKPSHPSGHQMVVIRGAGD IASGVALRLYHAGFNVIMLEVE KPTVIRCTVAFAQAVFDGEMT VEGVTARLATSSAEAMKLTER

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25227	55595	A	25365	1	1262	MGNWHLSPCPAPAGHSCLFL VGTSRILAVPGHTGSKAINKA ALLLESYMSQALKNLLTLLNLE KIEEGLFRGQSEDLGLRQVFAG QVGG\QPLYAAKEPVPEERLVH SFHSYFLRPGDSKKPIIYDVETL RDVAPVLDVAGATPPTIRHQRV TALVAPKNGSRDVRSCAGKMP TDGSIRAVLLPFQVSTIGGVTYE RVGT\KDQGPQCPHVQRSSAVR PGPEAAPGDNSYPPEYEDRSTCG MQAPDASYSANPDLSTWSPCL SEDALHTSPLYCTTPTSGGEAF KGLASDLVPHEDKMVLQNGKC FTSPRHTEWAVLRAGHALARG RNLLDLAAGGMAWVSMSQEC PGPGTICSRDLQGTECLRMIIQIL PPKDPVTRGSTHCNAGTKRELE EFSSQVTLTALIQLMQVSAQF RAADGAP
25228	55596	A	25366	2	176	
25229	55597	A	25367	1	1395	MRESLELPRDLLNCCDQNANS DMDMKSRRLRGYQMEIMNLLG AGVKDFELESDDLVLVEEISK QQSIHDVAWLLLVAFVYICEQR NDLKSELIFTREAEHKSLENLEP DHPPEELDTSARNAGALTRRRE IRDAATLLRLGLAYGPGGMSLR EVTAWAQLHDVATLSDVALLK RLRNAADWFGILAAQTLAVRA AVTGCTSGKRLRLVDGTAISAP GGGSAEWRLHMGYDPHTCQFT DFELTDSRDAERLDRFAQTAE IRIADRGFGSRPECIRSLAFGEA DYIVRVHWRGLRWLTAEGMRF DMMGFLRGLDCGKNGETTVMI GNSGNKKAGAPFPARLIAVSLP PEKALISKTRLLSENRRKGRVV QAETLEAAGHVLLLTSLPEDEY SAEQVADCYRLRWQIELAFKR LKSLHLDALRAKEPELAKAWI FANLLAAFLIDDIISHRWISPE
25230	55598	A	25368	482	765	

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25231	55599	A	25369	1	1575	MGSVTKSRGPTDSSAFFQINRD YSFLDYILGGCQLMFTPWARLL QSTCCEQCSKKAHDQFLADLA SILPSNTTPLIVSDAGFKVPWYK SVEKLGWYWLSRVRGKVQYA DLGAENWKPISNLHDMSSSHSK TLGYKSLTISNPISGQILLYKSRS KGRKNQRSTRTHCHHPSPKIYS ASAKEPWILATNLPVEIRTPKQL VNIYSKRMQIEETFRDLKSPAY GLGLRHSRTSSSERFDIMLLIAL MLQLTCWLAGVHAQKQAFRF MRLVDGTAISAPGGGSAEWRL HMGYDPHTCQFTDFELTDSRD AERLDRFAQTADIRIADRFGF SRPECIRSLAFGEADYIVRVHW RGLRWLTAEGMRFDMMGFLR GLDCGKNGETTVMIGNSGNKK AGAPFPARLIAVSLPPEKALISK TRLLSENRRKGRVVQAETLEA AGHVLLLTSLPEDEYSAEQVAD CYRLRWQIELAFKRLKSLHL DALRAKEPELAKAWIFANLLAAF LIDDIISHRWISPPEVPDPKRRT
25232	55600	A	25370	1	1341	MAGGRKFPDGGDRITLCGLSQ PGVLAPRSPEKRRAINQRYPSK TGQLPASITDMMRTARHHLG NGISVPKGAELAHPTVLELFAI SAKPIHPEELDTSARNAGALTR RREIRDAATLLRLGLAYGPGG MSLREVTAWAQLHDVATLSDV ALLKRLRNAADWFGILAAQTL AVRAAVTGCTSGKRLRLVDGT AISAPGGGSAEWRLHMGYDPH TCQFTDFELTDSRDAERLDRFA QTADIRIADRFGFSRPECIRSL AFGEADYIVRVHWRGLRWLTA EGMRFDMMGFLRGLDCGKNG ETTVMIGNSGNKKAGAPFPARL IAVSLPPEKALISKTRLLSENRR KGRVVQAETLEAAGHVLLLTSL LPEDEYSAEQVADCYRLRWQIE LAFKRLKSLHLDALRAKEPEL AKAWIFANLLAFLIDDIISHR WISPPEVPDPKRRT
25233	55601	B	25371	1	1233	

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25234	55602	A	25372	1	2197	SHSRGSPGKAVDFTLVSHAAW FGLPHFSTPAFNGQAMMLIAPV AVILVAENLGHLKAVAGMTGR NMDPYMGRAFVG DGLATMLS GSVGGSGVTTYAENIGVMAVT KVYSTLVFVAAAVIAMLLGFSP KFGALIHTIPAAVIGGASIVVFG LIAVAGARIWVQNRVDLSQNG CNPAYAEHHQHPGYSDKLKTR VSFSLRIHSTNLRRECRAQFRF HVDASARHGFRLWQIQGVAQP VFIITIREVEAAMRATAFGTEVG RNSRCIRRFHQVIQFQALNALG VELAGIDSRDPRCLKVLEEMKRT FHWGRQTISKHIKIWLGLMLGR AMTPLMLDATSGKLTVDGA HAGAAMGILAVTADQNSAELA YYKSGSFRIEDVLWPSAVTDDN IKRNAFAADGSVNSYSVPFSSV PLLQRQGRIKYAVTLAKYRTNS NEQQESKFAQATLQWGGPWGT TWYGGGQYAEYYRAAMFGLG FNLGDFGAISFDATQAKSTLAD QSEHKQGSYRFLYAKTLNHLG TNFQLMGYRYSTSGFYTLSDT MYKHMDGYEFNDGDDDEDTPM WSRYYNLLYTKRGKLQSLISKT RLLSENRRKGRVVQAETLEAA GHVLLLTSLPEDEYSAEQVADC YRLRWQIELAFKRLKSLHLDA LRAKEPELAKAWIFANLLAFL IDDIISHRWISPPERIPSARKWT
25235	55603	A	25373	1	2754	
25236	55604	A	25374	1	652	
25237	55605	A	25375	1	1800	

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25238	55606	A	25376	1	2187	MAGPRYPVSVQGAALVQIKRL QTFAFSVRWSDGSDTFVRRSW DEFRQLKKTLKETFPVEAGLLR RSDRVLPKLLGQASLDAPLLGR VGRTSRGLARLQLLETYSRLL ATAERVARSPITITGFFAPQPLDL EPALPPGSRVILPTPEEQPLSRA AGRLSIHSLEAQLRCLQPFCTQ DTRDRPFQAQAQESLDVLLRHP SGWWLVENEDRQTAWFPAPYL EEAAPQGREGGPSLGSSGPQF CASRAYESSRADELSVPAGARV RVLETSDRGWWLCRYAGAGPE ELDTSARNAGALTRREIRDA TLLRLGLAYGPGGMSLREVT WAQLHDVATLSDVALLKRLRN AADWFGILAAQTLAVRAAVTG CTSGKRLRLVDGTAISAPGGGS AEWRLHMGYDPHTCQFTDFEL TD\SRDGER\LARFAQPPDEIRIA DGEFVWRPKCIRSLAFGEADYI VGVHWRGLRWLTAEGMRFD MGFLRGLDCGKNGETTVMIGN SGNKKSP\GFPRARFIASLPPE KALISKTRL\SENRRKGRVVQ AETLEAAGHVLLTSLPEDEYS AEQVADCYRLRWQIELAFKRL KSLHLDALRAKEPELAKAWIF ANLLAAFLIDDI\SHRWISPP PDPKRRTNLSLWRITKMVIWSLQ VAIRGTVSLTAPSLCNSACCCC VSTNSATTLNDFAFARSVIDLTI
25239	55607	A	25377	2	333	RLGVWQDILSRRASCYHGMEV WDKDSFGHISFDDQSMGYSHL GHIVENSVIHYA\ARLVIGADGV DSWLRNKADIPLTFWDYQHHA LVATIRTEEPHDAVARQVFHGE AFW
25240	55608	A	25378	3	235	VAVLEQRVHEPLAANAPPQLR VS/ARLGVWQDILSRRASCYHG MEVWDKDSFGHISFDDQSMGY SHLGHIVENSVIHYA
25241	55609	A	25379	1	774	
25242	55610	A	25380	1	1076	

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25243	55611	A	25381	1138	1737	SVSTEPSVAAFSSIKLRQDPP/H DNLHHQYN*GDIAFCFTPYFH NCLCQS*WARAFQ*RANEF*R MNCTQLARTSGSHHLIPLTLRF* QICISSGQLIQYSVVCRIHPPEH RLTIHPLAGQGVNLGFMDAAE LIAELKRLHRQGKDIGQYIYLR RYERSRKHSAALMLAGMQGFR DLFSGTNPAAKKLLRDIGLKLAD
25244	55612	B	25382	1	735	
25245	55613	B	25383	1	1941	
25246	55614	B	25384	847	849	
25247	55615	A	25385	1	1227	
25248	55616	A	25386	324	1533	EGFMEHQKRLFQQRGYSEDLL PKTQSQRWTKTFNYFTLWMGS VHNVPNYVMVGGFFILGLSTFS IMLAIIISAFFIAAVMVLNGAAG SKYGVPFAMILRASYGVRGAL VPGLLRGGIAALMWFLQGRGS PFYDLIQTALSSPHKVITIEQFYR EVGVFLGIALIAVVISVLNFFV SHYVFRWRTAMNEYMANWQ QLRHIKGRTAFINAIMTLIAFLP VLVTLAHVPELPIIGHIPYGLVI AAIVWSLMGTGLLA VVGIKLP GLEFKNQRVEAA YRKELVYGE DDATRATPPTVRELFSAVRKNY FRLYFHMYFNIRILYLQVDN VFGLFLFPSIVAGTITLGLMTQ ITNVFGQVRGAFQYLINSWTTL VELMSIYKRLRSFEHELDGDKI QEVTHTLS
25249	55617	A	25387	1526	1683	
25250	55618	A	25388	2709	2918	CWCFWHRRSCCGSVRYALSAV PGCQCPET*RRRFPHSAF*RFRS SETGQTGAYVSGPDLQPERLQR LWC
25251	55619	A	25389	1	1812	
25252	55620	A	25390	134	386	RLKPSAAIRRRVSSSRISTPLNPA STTAFVGTDCAMPRLRATSGLA GSPLIQNRFRCRARQPRWSAPVA RHAAYYARHRWNQII

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25253	55621	A	25391	181	1630	RIRQFCFYHHCVLTLAICAFIVIT LTIWVSFRVSVLVFAMADDIKV AVVGAMSGPIAQWGDMEFNG ARQAIKDINAKGGIKGDKLVGV EYDDACDPKQAVAVANKIVND GIKYVIGHLCSSSTQPASDIYED EGILMISPGATNPETQRGYQHI MRTAGLDSSQGPTAAKYILETV KPQRIAIHDKQQYGEGLARSV QDGLKAANANGVFFDGITAGE KDFSALIARLKKENID\FVYYGG YYPEMGQMLRQARSVGLKTQF MGPEGVGNASLSNIAGDAA\EG MLAPVLITVDQPFVQAGFQPLR RLLPAHETGRRTRAYGVGRLT RQIRRQIATTFRHNAQAAESKD FQWYRCDPCQLFHLMNRRQAR QHHASNVKMAMIKVNRLFGR RSLHRYVALNMRLTGGVLHH GEVGEDQRVGTQLRRHIHGAL PTGVTVRMRKSVNRDVKFAA MLMDKTHRFLQFFLGKVKAGE
25254	55622	A	25392	2	505	
25255	55623	A	25393	1	2038	
25256	55624	A	25394	188	1771	GKQTSTSPAGWENSLRMRYT\ MSFSLIATGLLGVYLTTPGY WGILFVWALFGVTCDDMMNWP VLLKSVSRLGNSEQQGRLEGGF ETGRGIVDTVVAFSALAVFTWF GSGLLGFKAGIWFYSLIVIAVGI IIFVFLNDKEEAPSVEVKKEDG ASKNTSMTSVLKDKTIWLI AFN VFFVYAVYCGLTFFIPFLKNIYL LPVALVGAYGIINQYCLKMIGG PIVLEKVLPPVSVRVKGTASQ GQKIPEEFKQFFGDDLDPQPAQ PFEGLGSGVIINASKGYVLTNN HVINQAQKISIQLNDRGFEADK LIGSDDQSDIALLIQNPSKLTQI AIADSDKLRVGRSGLNLEGLN FIQTDASINRGNSGGALLNLNG ENPIDQLKVVGPRPHDRIDGPLK TTGTARYAYEWHEEAPNAA YG YIVGSAIAKGRLTALDTDAAQK APGVLA VITASNAGALDKGDK NTARLLGGPTIEHYHQAIALVV AETFEQARAAASLVQAHYRRN KGAYSLADEKQTVNQPPEDTP

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25257	55625	A	25395	356	849	GSACRVREIPRPASQMP/HTLPA GSRPPGSEAEPGPEAAPPPARRE AHQIPRPRRGHLPSSPGPRTHVA AHNIRVVTEAHADSHALLSDLG AAPFVMSRILRVGDGDEDPHV DESIQPTTENAVVFRPVQLTSAI ETGGKEEYPGLSAASLGRAESS AASLAGRR
25258	55626	A	25396	154	379	LVPRLKLGLDLPSEINPLSSCSLV REKDPPTTSCHTTNTNPRNISPIS NPDSTGNRTVQLTW*PLPEPLE LWPKAL
25259	55627	A	25397	4761	5127	LGSGDLPWEINPLSSCSLLREKD PPTTSGPQT/TSPRNISPISNPHTR TSKRLNRSQGAFLLQNLQELA TSARNLTTRPRNACSPGFLLSR VPSVRDPTGNWTVQLTWQPLS EPELELWPKAL
25260	55628	A	25398	1	753	MGSWLQGLRAMVFALNYMVT RVRNKKDPPTTSGPQT/TSPRNI SPISNPR/PKETRFICGPKTPAPL MDWEGSLPLMFNHCRDTSIIH PCFQGVRCRDACLSPLAASP AFLGKGQVPLNPFFTLGKSRF SGGGASTPTPSFHVSTPSLLFW GRGKYPSTPSSPLVASPAFLGK GQVPLNPFFTLGKSRFSGEGA KAPETITDAELRVTLTVEAAVC STIALSLGWEILPRHWGKEEVT KTIYYPVIP

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25261	55629	A	25399	174	2238	LRSGDLPWEINPLSSCSLLHEKD PPTTSGPQTTSRPNISPISNPRQR RHILSMDPKLRRRSWTWVGS LVFNHCRDASLIHPGFRGVRPR RDVCLGPSPLATITDAELYVT L TVEGKSIPFLIDTEATHSTLPSFK GPVALASIHVQNVQIKRDKEGH YIMVKGSIQEEELTILNMYAPN TGAPRFIKQVLNDLQRDLDST IIMGDFNTPLSTLDRSTRQKVN KDIQDLNSALHQADLIDIYRTL HTKSTECTFFSAPHRTYSKIDHI VGSKALLSKCKRTEIINCLSDH SAIKLELRKKLTQNHSTTWKL NNLLLNDYWVHKEMKAEIKM FFEINENKNTTYQNLWDTFKAV CRGKFIALNAYKRKQERSKIDT LTSQLEEEKQEQRSKASRRE EITKIRAELEIETQKTLQKINES RSWFFEKINKIDILLARLIKRR EKNQIDAINDKGDIDTPTEIQ TTIREYYKHLCPNKLLENLEMD KFLDTYTLPRLNQEEDESLNRPI TGSEIVAINSLPTKKSPGPDGFT AKFYQRYKEELVPFLQKYKEEL VPFLKLFQSIEKEGILPNSFSEA SIILIPKGRDRTTKENFRPISLM NIDAKILNKILANQIQHIKKLI HHDQVGFIPGMQGWFNIRKSIN VIQHINRTKDKNHMIISIDAEKA FDKIQQPSC
25262	55630	A	25400	3	267	EKDPLTTSGPQTTSRPNISPISN LRLFAFTWDPDTHQAQQITW AVLPQGFTDSPRYFSQAQISSLS VTYLSIILIKTHVLSLPIMSD
25263	55631	A	25401	167	408	LGSRTFPWEINPPSSCSLLREKD PPTTSGPQVTRPRNISPISNLVS GLFLLSSPTSLTIPQLSSFNLD TLQSLPSLNF
25264	55632	A	25402	142	441	LRLGDLPWEINPLSSCSLLCEKD PPTTSGP\PRNISPISNPVSGLL SSPTCLTIPQLSPFNLGATLQSL PSLNFNSFHLVETKETRFIRGP KTPAP
25265	55633	A	25403	79	381	LGSGDLPWEINPLSSCSLLREKE PPTTSGPQVTRPRNISPISNPELA TLAGNLATGPRNARSPGFLSH VLSVWDPTENQTVQLTWQPLP QPLELWPKAL

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25266	55634	A	25404	1	511	MWKGPGLDMYGKSSVSPKTS DILGRDTLLALKVQTVVLQTA CGEGHVAGNCGRPLETEGSLQ LTATKKLRDSVLQPKSPEFCQQ FTRAWNRTQVPDETEAPAGTY AAQSGDLPWEINPLSSCSLLHE KDPPTASGPQT\TSRPNISPILNR VSEVSDHAGTPALVLHP
25267	55635	A	25405	570	1182	LGSGDLPWEINPLSSCSLLHEK DPPTTSGPQT\TSRPN\SPISNLH ALKGLKPAITRLLQHGLLKPINS PYNPILPVLKPKPYKLVDL CLINQIVFPIHPVVPNPYTLLSSI PPSTIHYSVLDLKLAFITPLHAS SQPLSAFTWADPDTHQVQQIT WAVLPQSFTDSPHYFSQAQISS LSVTYLSIILIKTHVLSLPIVSD
25268	55636	A	25406	489	615	LRNTWNSPRLMACALHSGSPSC TWGPYS*SGLSENLASQRVCP YQENVGRVRDEIKEHCYEES SYRAATQIQVRKVGITEPYPFM ASLRTHCIICETCYEMKISFSKS LNPLEKNKKSQPANCAVKEVS EQLRRRQAFSVAAGLKGGKSP AQSRKNLQKPYQHFTLQQLL PLQWAPCYGPSNFATHGTHQG LWLVSTVAAQAVPGALIAEA TALLAWIQGAVS
25269	55637	A	25407	579	715	LGSGDLPWEISPLSCSLLHEKD PPMTSGPQT\TSRPNISPISNLR
25270	55638	A	25408	1553	1896	
25271	55639	A	25409	964	1332	SCRFIYQGACCNLHPGEINSH VAHTKPVWWSLHTDTHENCHL NTAVFFYHWLALEFFLNPLRR/ CSC*HSLPGQFPVSLCLRVLSVD CAHPWGKPEAPGS*HPGPWQFS SLPSPLWPLYQHP
25272	55640	B	25410	1	717	
25273	55641	A	25411	590	1142	PNSSWMRGEPPKDPPTTSGPQT \TSRPNISPISNPR/PKETRFICGP KTPAPLMDWEGSLPLMFNHCR DTSLIIHPCFQGVRPCRDACLSP SPLAASPAFLGKGQVPLNPFFTL SGKSRSFGGGASTPTPSFHVSTP SLLFWGRGKYPSTPSSPLVASP AFLGKGQVPLNPFFTLGSGKSRF SGEGA

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25274	55642	A	25412	1	790	MGLVHLQRQSYWTVQRSSINH FLGCNPHGTGKDKTLYMRWTKS FRKVEDPPTTSGPQTDQPKKHL TKFKSETKETRFIHGPKTPAPV MDWEGSLPLVFNHCRDASLIH SHFKGVRPRRDACLGPSPLAAS PAFLGKGQVPQPLISLCPDPLFP HPNLISLRPNPLCPHDLVSLCP DPFPAFLEAHKNFQTPEPQQPGI PPEPPPPGACYKC/HEI*PPGQG MPAAQDSS*AMS/LSVRDPTGN QTVQLTWQPLPELELWPKAL
25275	55643	A	25413	1	736	MQAMEKWKREAKVETEKDQK NQYQQTWLSDSASGYRYTKLP FYFRHNNLIPALAHLLFLDSLVS DLTAAFFMQFWLSAQMSDDQ RGLPGYLLWAEIISLLEISELTS GKQDSSWPEVKAGLKKEANYL SSDSARLHPGEINSLVAHTKPV WWSLHMDTHEIWCRDSNWGD LPWEINPLSSCSLLHEKDPPTTS GPQTVTSRPNILPISNPSSKHQE KPPEAISTLPNAAATAAAVGS LLWSL
25276	55644	A	25414	1644	2010	LGSGDLPWEINPSSSCSLLREKD PPTTSGPQTVTSRPNISPISNPHT TSKRLNRSGQAFLLQNLQPQLA TSARNLTTRPRNACSPGFLLSR VPSVRDPTGNWTVQLTWQPLS EPELELWPKAL
25277	55645	A	25415	1	1035	MGKEYSLDVKKSIKVFKNRS QGNRLQKLGLDTRDREDAMGF GSHRAKLTVAALGACHCPEN EGQTVLPSSSTGRSDKRERSA GYTPPFVKEGVPSPLFKLHV RCCSIQSHHSRRSQNCAEDVIR KTKTDQAVSSMSAPVTVQQL NIIPALLVALTCGWAFCLMVSQ EQYDEASKQAASFSNNAVIPVY MSHMSKTLYKSEVPINTYAQK ICFIAHTKPVWWSLHMDAHEI WCRGRRSTDLPWEINPLSSCSL LREKDPMTSGPQTVTSRPNISPI LNQELATRAGNLATRPRNACSL GFLLSRISSVWDPT*KFGLVQLT LGKPLPELELWPKAL
25278	55646	A	25416	174	393	LRSGDLPWEINPLSSCSLLHEKD PPTTSGPQTVTSRPNISPISNPGET KETRFIRGPKTPAPVMDLGRQP SLGV

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25279	55647	A	25417	2	4574	WDVLGAVIGTECGTIESGLSMV FLKDGERKLCTPSMDTTGYGN LRFYFVMAKWIYIPENVVKGR KEIILVLDFTWCMVHRGICDPG NSHENDIILYAKIEGRKEHITLD TLSYSS/L/SSLYWPVMSQILFW QRTVH*TWL\QL*DGIPDIPNVY F*KLWQFQALLP*LLYPWC* SQLWLWCLGQW*GPGFQQRW AASANYIFP*QITIQQNNLRRTTR *CKAVWNSVQMV\ATVSFFPER RCMGY**DYHDICA
25280	55648	A	25418	1	363	
25281	55649	A	25419	1	301	
25282	55650	A	25420	2	309	
25283	55651	A	25421	3	512	YIGPSCCLKFCSGRGQCTRHGCV CEMASQTFPMFISESFGSSRLSS YHNFYSIRGAEVSFSGCVLASG KALVFNKDGRRLITSFLDSSQ SRIISVELPGDAKQFGIQFRWW QPYHSSQREDVWAIDEIIMTSV LFNSISLDFTNLVEVTQSLGFYL GNVQPYCGHDWTL
25284	55652	A	25422	2	878	
25285	55653	A	25423	1	750	
25286	55654	A	25424	1	1404	

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25287	55655	A	25425	1	2506	GCSRLLVTVDLNLTAEFIQFY FMYGCLITPNNRNQGVLLYESV NGGITWNLLMEIFYDQYSKPGF VNILLPPDAKEIATRFRWWQPR HDGLDQNDWAIDNVLISGSAD QRTVMLDTFSSAPVPQHERSPA DAGPVGRIAFDMFMEDKTSVN EHWLFHDDCTVERFCDSPDGV MLCGSHDGREVYAVTHDLTPT EGWIMQFKISVGCKVSEKIAQN QIHVQYSTDFGVSWNYLVPQC LPADPKCSGSVSQPSVFFPTKG WKRITYPLPESLVGNPVRFRFY QKYSMDMQWAIDNFYLGPGCLD NCRGHGDCLREQCICDPGYSGP NCYLTHTLKTFKERFDSEEIKP DLWMSLEGGSTCTECGILAEDT ALYFGGSTVRQAVTQDLDLRG AKHDYILLPEDALTNTTRLRW WQPFVISNGIVVSGVERAQWA LDNILIGGAENPSQLVDTFDDDE GTSHEENWSFYPPNAVRTAGFC GNPSFHLYWPNKKKDKTHNAL SSRELIIQPGYMMQFKPFGFCRS DSWQLVQTQCLPSSSNSIGCSPF QFHEATIYNSVNSSSWKRITQL PDHVSSSATQFRWIQKGEETEK QSWAIDHVIYGEACPKLCSGH GYCTTGAICICDESFQGDDCSV FSHDLPSYIKDNFESARVTEAN WETIQGGVIGSGCGLARYAH GDSLYFNGCQIKRAATKPLDL
25288	55656	A	25426	146	10561	GGGGGGGGGMERSGWARQT FLLALLGATLRARAAAGYYP RFSPFFLCTHHGELEGDEQG EVLISLHIAGNPTYYPGQEYH VTISTSTFFDGLLVTGLYTSTSV QASQSIGGSSAFGFGIMSDHQF GNQFMCSVVASHVSHLPTTNLS FIWIAPPAGTGCNVFMATATHR GQVIFKDALAQQLCEQGAPTD VTVHPLAEIHSDSIILRDDFDS YHQLQLNPNIWVECNCETGE QCGAIMHGNAVTFCEP
25289	55657	A	25427	1	296	

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25290	55658	A	25428	1	557	MARSLGVLVALPFPLPVGFNAE EAHNIVKEFSPGKSHPRESLSQQ RETLVQAGAFHWFGWRGKEK LKPKEFNTFGRLPNEMLEQWLSP TNQCV DGV/LKGGED\YNHNNI NQWTASIVEQSL\THLVKLGKA YKYIVTCAVVQKSA YGFHTASS CFWDTTSDGTCTVRL/WENRT MN\CIVNVFCHCLFVL
25291	55659	A	25429	178	2270	VRRLFCVQTGGSPVGRGSLHHL WLVFHSVLSLLCSPCLLAPGM WGFHDRDLVLRKALYTMMRT GAEREALKRRWRWQQTQONK ESGLVYTEEEWEREWTELLKL ASSEPRTHFSKNGGTGGGHLPP EGKPLHGCSSLLRSGKGGHVK AEP SRLQQSAKPPLTSQIRALH FPIPSQINEKPGAGHWSAKLHFP YWQLGEAGEEEGSSPPDIMRCL LTCLSV PSTAVIPLTDSEHKLLP LHFAVDPGKDWEWGKDDNDN ARLAHLILSLEAKLNLHLSYMN VTWIRIPSETRAPLAQPESPTAS AGEDVQSLADSLDSRDSVCS NSNSNNGKNGKDKEKEKQRKE KDKTRADSVANKLGFSFKTLGI KLKKNMGGLGGLVHGKMGRA NSANGKNGDSAERGKEKKAKS RKGSKEESGASASTSPSEKTPPS PTDKAAGASPAEKG GGPGRGDA WKYSTDVKLSLNLRAAMQGE RK FIFAGLLLTSHRHQFHEEMIG YYL TSAQERFSAEQEQRRRDA ATAAAAAA\PPPPRP/ERPPRRP ETEGVPVPERASPGPPTQLVLK LKERPSGPAAGRAARAAAGG TA/CPGGRRAACERQRTSAWPQ PPGASAPERHPRAGVGRAGRG VRAGRGGAAAVRHVPAAEPLA VVAELQPGARRRPAHRQHGRV AGARGARGPTGRGGDRGGGRA

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25292	55660	A	25430	404	1116	SLGPLMLSGQKLQTSYTMEEY AAIKR/DKIVSLVGTWLELEAIL KKLMQEQKTKYHMFLLDSLH GMQQAERVLIADGTMLLSAQY QFENNLLVPILRVSFRLSLQRKE EPGRKAKKSQTSGEIGKRRFW FEWKEPVALSSQGWYEAAGSE RPEKGHLGLLRAESFQDLRTAL ISKPYFSVPGKVGPAIKCPETLP ELKTYPQYGVTLGEPVRNEQQ QASSFPSLSNTHLSKKRNES
25293	55661	A	25432	1571	1782	WLLCRLPPRVDPQL*WCGCQPE KCAGAEFQDGSAMPLPSRTCPL SPRMCTGWSTTCATTDSATTA CPLAL
25294	55662	B	25433	69	1160	
25295	55663	A	25434	14	437	LQTSHPYPTTSKC/PPP/CEKPSP TSL/C*RRSAPHLQPPE
25296	55664	A	25435	782	997	MMLCQLQRPV/CGSHSCSRG/C PPAQ/CPSPVPVPSPQSAFPVPS PSSTCPNPSHPIHPIMVPSSWSG HWDSK
25297	55665	A	25436	1117	1815	GDAHTEQCLQONLYPRGSRPPLP LESHPSSSKHSPKACPTGRS/CG PWK/CPGPEVRP*PPPSCTR*DP HFRGLLEGLLEPRHVTCLALCG PQRVLYWPVYHERLGEGWDW CPSSWPGA

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25298	55666	A	25437	1261	2757	ALGKDEKSQGPPIQTGGLGPRL FRLPSSQGQERRFAAAKAPSSL VPHNGSPLSCWRGLREEGGLSL ATLWTPCGVGSVPAAPPSAW CDLGKLLVCWRGQNRGPRSTQ TDVRRHEARSRQRRRKCVAAP VAPRSRRWRCPAALAAPAVAV PVVFALIFLLGTVGNGLVLAVL LQPGPSAWQEPGSTTDLFILNL AVADLCFILCCVPFQATIIYTL AWLFGALVCKAVHLLIYLTMY ASSFTLAAVSVDRCAVPG\HPL GRAVGAGVGGGVNLVGLVWL LAALFSAPYLSYYGTVRYGALE LCVPAWEDARRRALDVATFAA GYLLPVAVVSLAYGRTLRLW AAVGPAAGAAAEEARRRATGRA GRAMLAVAALYALCWGPHHA LILCFWYGRFAFSPATYACRLA SHCLAYANSCLNPLVYALASR HFRARFRRLWPCGRRRRHRAR RALRRVRPASSGPPGCPGDARP SGRLLAGGGQGPEPREGPVHG GEAARGPE
25299	55667	A	25438	1	1624	MKDKSKTLGLEASIFRNNWKC KSIFEGLKGHQEGYFSQMIISYE KIPSYRKSKSLTPHQRIHNTKS YVCKEKGKACSHGSKLVQHER THTAEKHFECKEKGKNYLSAY QLNVHQRFTGEKPYECKEKG KTFWSGSSLVKHERIHTGEKPY ECKEKGKAFSRGYHLTQHQQIH TGVSYSYKCKEKGKAFWGS AKHEIHTGEKPYKCKEKGKAF SRGYQLTQHQQIHTGKKPYEC KICGKAFCWGYQLTRHQIFHTG EKPYECKEKGKAFNCGSSLIQH ERIHTGEKPYECKEKGKAFSRG YHLSQHQQIHTGEKPFECKEKG KAFWSGSSLVKHERVHTGEKS HECKEKGKTFCSGYQLTRHQV FHTGEKPYECKEKGKAFNCGSS LVQHERIHTGEKPYECKEKGK GFS\GGYHLTQHQQIHTGEKPF KCKEKGKAFWSGSSLVKHERV HTNEKSYECKDCGKAFGSGYQ LSVHQRFTGEKLYQRKEFGK TFTHGSKLVHERTHSNDKPYK YNECGEAFWTTYSNEKIDTDE

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25300	55668	A	25439	32	447	VLGGSMMFREGQRGNRQKGP KKRRNLALSSALLASTA\PAGG QPRHWRPG*CCLRQQL*PLQGN WAPVSPLOQHRSQLRAGYSSS FLQMFAP*VQGAARAQPAPGA AVPRGSGRQGGPRAVDLHGFR VGWNRRLRAASM
25301	55669	A	25440	1	858	
25302	55670	A	25441	147	1088	SRTTYKKGKSSFQTYSDYLRWES FLQQQLQALPEGSVLRRGFQTC EHWKQIFMEIVGVQSALCGLVL SLICVAAVAVFTTHILLLPVL LSILGIVCLVVTIMYWSGWEMG AVEAISLSILVGSSVDYCVHLVE GYLLAGENLPPHQAEDARTQR QWRTLEAVRHVGVAIVSSALT TVIATVPLFFCHIAFPAKFGKIVA LNTGVSILYTLTVSTALLGIMAP SSFTRTRTS/CPQGGPCRAAGRG PGAGCLPRAPAERL*DSPARRG LPIARDGLWTLAPLPVWVGDR SCFPARLQLAVSPGLGPGRPAG
25303	55671	A	25442	1	1596	MGVSVRVDCGCARASEFLGRP RGAVRGADPGSGLTETCAQSR TWARARSKGGFRLTLNFGPR YPSEGTSRGQRSEALPFLDIQHP TPLGRPRMLQSRGEMVRSWGP VVEGKLGFCPPLTVFPGLRGP HPGLAGERENFARGAKQEACL LQPGDAGLTHPCATGYFPEA SCTSRIRMFINQERQLADMSL FIADSWLCYSGIICWKSLEHQR GASLSCVYMEGKGGNIWMKAS NVLPLCQMLPTSGHKSDFGG LAVEKQMRQDHHILLHDRSGF QLAVTSPLLTRLGKGHHIQVPV YVLDAPSRWLGLRLFRDSSCG LVLSLICVAAVAVFTTHILLLL PVLLSILGIVCLVVTIMYWSGW EMGAVEAISLSILVGSSVDYCV HLVEGYLLAGENLPPHQAEDA RTQRQWRTLEAVRHVGVAIVS SALTTVIATVPLFFCHIAFPAKFG KIVALNTGVSILYTLTVSTALLG IMAPSSFTRTRTS/CPQGGPCRA AGRPGAGCLPRAPAERL*DSP

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25304	55672	A	25443	1	2355	MDHPGFREFCWKPEVLKDLP LGSYSYCSPSSLMTYFFPTERG GKIYYDGMGQDLADIRGSLEL AMTHPEFYWYVDEGLSADNLK SSLLRSEILFGAPLPNYYSVDDR WEEQRAKFQSFVVTVVAMLAK QSTSKVQVLYGGTDLFDYEV RTFNNDMLLAFISSCIAALVYI LTSCSVFLSFFGIASIGLSCLVAL FLYHVVFQIYQLGILNGVAAFV IVGIGVDDVFVFINTYRQATHL EDPQLRMIHTVQTAGKATFFTS LTAAAYAANVFSQIPAVHDFG LFMSLIVSCCWLAVLVTMPAA LGLWSLYLAPLESSCQTSCHQN CSRKTSLSLHFGDVFAAPEQVGG SPAQGPIPYLDDDIPLLEVEEEP VSLELGDVSLVSVSPEGLQPAS NTGSRGHLIVQLQELLHHWVL WSAVKSRWVIVGLFVSILILSLV FASRLRSASRAPLLFRPDTNIQ VLLDLKYNLSAEGISCITCSGLF QEKPHSLQNNIRTSLEKKRRGS GVPWASRPEATLQDFPGTVYIS KVKSQGHPAVYRLSLNASLPAP WQAVSPGDGEVPSFQVYRAPF GNFTKKLTACMSTVGLLQAAS PSRKWMLTTLACDAKRGWKF DFSFYVATKEQQHTRKLYFAQS HKPPFHGRVCMAPPGCLLSSSP DGPTKGFFFPSEKVPKARLSA TFGFNPCVNTGCGKPAVRPLVD

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25305	55673	A	25444	1	1737	MLYAAECLRNVMKLQVIP SALNEALQAQSTWSDLGLASHALS STWCLHGESAAWSQPAVVECG QPRDQLQTHSEAWLCALVATF SQELEQFAVTGAQISDRQGHAV CTAPPRGRPSTLMTNLVCASSA DECGGGKTETQTAGGRLQGAE TRSRGQLTRLITRTQAAEPRWF LQLLKRSANRSRALTRPFSGLSS DGARRLRLSFVSAVSSADTKPT VPVSSDSSGRDGCGETRAEAGP GGPHVAQPQRVAPPAAAAARDF RKPRGLNRQNVSP/PGPGEQGP G/PRPQKPAGRAP\PEPQGEPL GLFPR\GRPPRSFPGSPADPAAS VSHTQGPSPDTGLPGTCQNRLP NPAAVDEQTCTRGSLNCRLSRS PRVSERRGPEGTPGRRPAAPPQ CAGTRGLSPRADLGAAIRTPRA PYRPHGQGRPSRHNCDVSSQG WPPHSCWWKTTSNGMPWKAS FCSRTAQPANQNTGNHERGLRS VAMFGDRASREATPALSLCESQ GCFEDEKEVFSPEPHVETSDEPL PICSGPGDGWGDPIARPGRGNN LSPGTSaweVPRWIRVTGEDW LSTGPAECVFINDLTT

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25306	55674	A	25445	2	1642	LLSSISAWFGPPASTPAFTMSIR VTQKSYKVSITSCPRAFSTRSYT SRPGSRISSSFSRVGSSNFRGDL GGGYGGASGMGGITAVTVNQ SLLSPLVPEVDPNIQAVRTQEKE QIKTLNNKFASFIDEVGFLEQQ NKMLGTKWSLLDQKTA\RSN MDNMFESYINNLRRLQLETLGQ EKLKLEAELGNMQPLVEDFKN KYEDEINKRTEMENEFVLIKKD ADEASM\NKVELGSRLEG\TDEI NFLMQLYEEEEIRELQSQISDTSV VLSMDKSRSLDMDSIIAEFKAQ YEDIANRSRAEAESMFQIMYEE LQSLAGKHGDDLRRTKTEISEM NRNISR\QAEIEGLKGQR\ASL GGRPLQDAE\QRGKSWPIK\DA NAK\SEAGSPPLQAGPKQDMG R\QLREY\QKLMNVKAGPWTIE\ IATYQESCLEGEETPGWSLGCQ NMS\HT\KTTQRGYAGRPEPPP MGGFTSP\GFSYKPGAPGFGSG AGS\SSFNRHQLSPGAVVVKKIE TRDGKLVSES\SNVLPKVKQLR QPLPSLPLLRCPRGLGKEAPYP
25307	55675	A	25446	1	1280	MAYLCNAICMTHMVTLPDQ ALPGATTATSVPGPQCDASCM MLFAVVPFNGIALAATQGAQS MLPPRVQGSLSKPSSTRGRDA PGLQVSQAPPPRRGFAVGRRYS PPALAPGRCAAPHGGGRKELPT RRPGHGMAPKFPDSVEELRAA\ GSESRNGQYAEASALYGRAL RVLQAQGSSDPEEESVLYSNRA ACHLKDGNCRDCTDCTALAL GPFSIKPLLRRASAYEAEKYP MAYVDYKTVLQIDDNVTSVE GINRGPGLKEDTTQKRWNSLPS ENHKEMAKSKSKETTATKNRV PSAGDVEKARVLKEEGNELVK KGNHKAIEKYSESLCSNLES ATYSNRALCYLVLKQYTEAVK DCTEALKLDGKNVKAIFYRAQ AHKALKDYKSSFADISNLLQIEP RNGPAQKLQRQEVKQNLH

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25308	55676	A	25447	1	1297	MHLLSAYFVPGSMLVGSGYM MVNITDVSPPSWSFLCSMLITTT QGAQSMPLPPRVQGSLSKPPSTR RGRDAPGLQVSQAPPPRRGFAV GRRYSPPALAPGRCAAPHGGG RKELPTRRPGHGMAPKFPDSVE ELRAAGNESFRNGQYAEASAL YGCALRVLQAQGSSDPEESVL YSNRAACHLKDGNCRDCIKDC TSALALVPFSIKPLLRASAYEA EEKYPMA YVDYKTVLQIDDNV TSAVEGINRMTRALMDSLIGPE W/RALKLPSPFLVPVSAQKRWN FLPSENHKEMAKSKSKETTATK NRVPSAGDVEKARVLKEEGNE LVKKGNHKIAIEKYSESLCSN LESATYSNRALCYLVLKQYTEA VKDCTEALKLDGKNVKAFYRR AQAHKALKDYKSSFADISNLL QIEPR\NGPAQEVAGREVKQNL
25309	55677	A	25448	3	491	GITFTHSPAATGGGAQVRRRD PPPGVQLRNMAQETNHSQVPM LCSTGCGFYGNPRTNGMC SVC YKEHLQRQNSSNGRISPPATSV SSLSESLPVQCTDGSVPEAQ SAL DSTSSSMQSPVSNQSLLESV ASSQLGQYICGTKAVPETEDVQ ASVSDTAHV
25310	55678	A	25449	1	860	HLLLLAIDYNLPIAGVLMESQY LGASPKRLVIPNLYAHRKSLAT LEPYAPRRPMPIARRYAIPYMS HHNGYIGDVYYRLTVEEKKSSF IARRSILTTEFTIRRTKKVPVPSI NMSSASPLEDES RPSAGVQLRK GRYRLLRDRYRPGCNSVGESPR KSSFSDDIMATESRESIFAEPR TGEHSVRGPVSNQSLLESVAS SQLDSTSVDKAVPETEDVQDSL NASPTKQQCG/DVQTVDLYSNN KELFAQKCYRHRYISRLKKCL CHELVPRDTIKSPESLSVGS
25311	55679	A	25450	880	1196	SPTTRRGTPGTCLKPTACAGAA *PGCSARRTCASAAPLSTCPPSS CAAPPPAPAAVPSTPRPTSPSPW AAPASPSRRRTQTASTPASTNR APSSCWAPTTRPLAP
25312	55680	A	25451	254	579	IEKISLEPKNRPSQIPNLVGP/R LFLVPGDFQSQVPNFLPFKPSSG PHPAAGKGQPFSLPAWRSTGP ERATPGPGRPAACSALEAPSLR GPSGYS AQEPPRRPISARI

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25313	55681	A	25452	6	1442	RSELIRHSWPRHAQLRGARART AVSIRECISVHVGQAGVQIGNA CWELFCLEHGIQADGTFDAQAS KINDDDSFTTFFSETGNKGHVP RAAMIDLEPTVVDEVRACTYR QLFHPEQLITGKEDAANNYAPG PPTPGGKESIDLVLDRIRKLT ACSGLQGGFLIFHSFGGGTSGGFT SLLMERLSLDYGKKSKLEFAIY PAPQVSTAVVEPYNSILTHTTL EHSDCAFMVDNEAIYDICRRNL DIERPTYTNLNLISQIVSSITAS LRFDGALNVDLTEFQTNLVPYP RIHFPLVTYAPIISAEKAYHEQL SVAEITSSCFEPNSQMVKCDPR HGKYMA\CCMLYRGDVVPKD VNVAIAAIKTKRTIQFVDWCPT GF\KVGINYQPPTVVPGGDLAP VQRAVCMLSNTTAIAEAWARL\ DHKFDLMYAKRAFVHWYVGR GDWKKGEFSEAREDLAALEKD YEEVGVDSEAEAEEGEEY
25314	55682	A	25453	3	618	SSAGREPDPDDLPRRLCFTHRLP AARRWVQLCVHASPEPGGQGV CPGRSERMVIRVFIASSGFVAI KKKQQDVVRFLANKIEFEEVD ITMSEEQRWMYKNVPPDKKP TQGNPLPPQIFNGDRYCGLLV FSVICIKPNPNWHNLFLIPWSGI NPYCEQDSSFSENVGDEILKNS GVPRDFTSILIQKERKSEKVKG VDQGHR
25315	55683	A	25454	3	424	SWTMAATIQA MERKIESQAAH LLSLEGQTGMA*S*GTPCCPG AAAGSRSSCCAAGSPRSPAASA AARTPAAGSPARPTCPPAGSRT PRLSSRNQPASSRPSRFDLLGKA GEQPAIQSSSPWPESWLPSTK
25316	55684	A	25456	268	445	
25317	55685	A	25457	3	205	
25318	55686	A	25458	27	272	AKCSGQGPGRVRAQGERADHE CPGAGAGGGGCNSAASAREES SRLISG\SLQM\QNVSLASRRKEE EVRAAAAGGAAAGRPRV
25319	55687	A	25459	1	253	
25320	55688	A	25460	2145	2399	

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25321	55689	A	25461	174	1309	HLLCCRAQRRPQTTPPAARGLEA CSEGALKMPEAPPALLLA AVL GLVLLVVL LLLLRHWGWLCL IGWNEFILQPIHNLLMGDTKEQ R\LNHVLAACGSPGNAQSVLG GH LTPNCEQKEW/APLNVGDK KGQDSWDALISREQPALPCLLG NLGAYFGLLQLLRMARLLVNQ GARLIHHSRFNPDLCPPSPKRM\ VDFAGVKDKALFQVTLVCGAS PETFHPPSLKKKYDVGHNWTW VFLDHWKDRYL\PD TLLLE\EC GLLPEGGQLLLAEQRLSSPGAP \DFL\AHVSREPACFG\CT\HYQI VPWKYREVV DGLGRRP\YKG P\GSEAGALTAPPRPPSRALSPK PGTEGARPWLLLT LVR LRACVL NAKSHARAESLRA
25322	55690	A	25462	2470	3460	SGPCPRCCAECRPYKTRPRSRV PGTHGPGPADHGQPCCMAGA HPPRPQAWMLLQTHSQDCEGK VGCGGIFCPCYHHCKHTHHHH HHPHHHHYHYHHHNHHQH HH HHHHHHYHHYHSHYHHYHHH HLHHH\HHHHHPYPHHYHHH RGQDHHPHPHHHH/HHHYHHH HYHHHHYHPHHHPHHHHQPQH HHHQHYHHHYHHHHHPHHPHH PHHHHHYHYHHHHHHHY\HPY PHHYHHHHHHHHHPHPHHHH/ HHHYHHHPHHNHYHHHHHPH HHHRPHHHHRHQPHHYHHH HPHPCHHRLHHHRHHHYHH TSSVQGPSQPAGASLPGQACR
25323	55691	A	25463	1	407	DAERQEALGIVRRIGTDTEAAT EPAGATVPAAAAAARIGTVGP QPPAMP RRKR NAGSSSDGTEDS DFSTDLEHTDSSSEDGTSRRSA RVTRSSARLSQSSSRJSRSCSKS GSLALRSLTLPEE*PVVSSSL

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25324	55692	A	25464	3	2539	RILYIPDGHRAPGASQSGNWEH PLLLLEPGNLAASSPSMSLAYPHP CGLTIHQEHRAHEELAYTPND RASSTGHFAFIEDGNPSPVLAF ASPRPND SYILKREPPESCEKER VFEEATTRGKYGEGAKQETFTF ALT LVFIQCVINAVFAKILIQFF DTARVDRTSRWLYAAC SISYL AMVSSNSALQFVNYPTQVLGK SCKPIPVMLLGVTLLKKKYPLA KYL CVLLIVAGVALFMYKPKK VVGIEEHTVGYGELL LLSLTL DGLTGVSQDHMRAHYQTGSN HMMLNINLWSTLLLGMAVSCP DQGP ELVPRCPFVQALEKPSWK NLHQQDLFATCYWHNEGESC SCHGKTLSSKTQGGILFTGELW EFLSFAERYPAIYNILLFGLTSA LGQS FIMTVVYFGPLTCSIITTT RKFF TILASVILFANPISPMQWV GTVLVFLGSTQIILDNLKILNTS AKTLLYKTPLSWQELEGERRASS CAHKRSASWGSTDHRKEISKLK QQLQRTKLSRSGKEKERGSPLL GDH/V SAGSTEGVPS/RASPQGP LSCDSAPACT/V SLEGLNQELEE VFVKEQGEEELLRILDIPDGH APAPPQSGSCDHPLLLLEPGNL ASSPSMSLASPQPCGLASHEEH RGAAEELASTPNDKASSPGHPA FLEDGSPSPVLAF AASPRPNHSY IFKREPPEGCEKVRVFEEATHQ
25325	55693	A	25465	845	1316	LSLGDSAQCLLPHASWCQVAG HPAFLEDGSPSPVLAF AASPRPN HSYIFKREPPEGCEKVRVFEEAT S/RRVLTGPFLTSCPDK\NKVHF QP\TGSAFCPVNLMKPLFPGMG FIFRNCPSNPGISSSPGQPQATTS EGSGSLQGLPTAIRAMAAHPYH Q

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25326	55694	A	25466	1077	1506	CDACGRRRCRTCTFCLGLQPAG LDGHHHRHPDCWFPWSPRHR* GMHIDVFSRYSGSEGSTQTLTKG ELKVLMEKELPGFLQILTNEDE PLVTIPFLSHSCSLAYLLTTSNG RVNALLKWLKLGERWQMTE EGIKGQRSRGHGPEQAENPLGDS VPQDTTKDVPLTQHRHLHQGLE AGVPKTSVPARPGLPVPALQHA QIPGPCERALLHCHNGPQRLQH SLQGEEQRETHLRGQDWPCITL QMRTLKREVEHALPGGRAGGAA REGLGASICETGEHQMTNFQVP RWPPCFPGQAGPVLGTGTRHG LDLLSGRPGETVRKGSSVARIMK EEVTVTKQSAADLRHTGQGPT CCVLSSGRCGSQACSRPFSL LGDESEPHGRGPFAAALHHR NPLNDVMLVGDDAGPAGHFAS VYNPLAWTVTTIVTLTVGFPGV RVTDEAGHPVPSQVSGIQRCLQ GMKAPPVTVTVSGEKGSCCLCA SCVLCLEHPYFPLVPWLPPVFR DSVIPSTSPQEA VLADVGFRN NVPQRAQLKPQKQILTPF
25327	55695	B	25467	31	783	
25328	55696	A	25468	846	1392	PDPAHRFGHPTLHPGSLRTSS GAGTWYQNPQHNDHDYHH HHHHDDHHYHYHHHHHHHH HHYHHHHHHHHHHHHHHHH HHHQHHHHHHHHYHHHHHH HHHHHHHHHHHHHDQHHHHH HHHHHHHHHHHHH/HF/HHHDH HHHHHHHHHHHHHHHHHHHH HHHHHHHHHHHHHDHHHHHH YP
25329	55697	A	25469	181	412	LRSDQQTRKFVSRSSGACSPPTT TELSWPPSLPSL*FHSPSSQP* MNHSASTTSPLPSFITERESILAT EWDITARN

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25330	55698	A	25470	1	848	MPSLNTIVSPLGSPHTSLIPPML LSANLPFDTTIMIKLQTACSAPI HNLQRPCGENLRTSTFVRRLDR NLVKSPQPGGGGQPSRQWEAR GAEPQGRDPSEVQ/RPAGRGF GRISRAPRKPSRAPPTQGLGPP LGAGGQGSLASCRPARKNARPP TRAAAHSAHPHSHWHSHARPQ PQSPSAAGQSGDPWPPARVPPP PLLRLPQRRTAGRTPVDAPARG IFTLSLSSSHSKSSGKHRGARKT PEMWPLFRGSLSKLSRRRKVSP SAALHWRLRRTQKRLLCC
25331	55699	A	25471	92	1083	TMRTHGHRKGNITPWGLSGVG GL/ETGRALGEIPNVDEGLMGVI AAVAIVLVSLLFVMLRYMYRH KGTYHTNEAKGTEFAESADAA LQQRERALDSSRDSHLETGAC PGRNGGGLALQEATPRDPGRR WPPQRPPFAPRRWEKIWAHGPI GSAGQHQLTGRKVLVEGLGCI CMAHTDLQNTSVAKMAINRPN EYAQVSLENDVSCVKAVQAP QRLHWPSVDADTGGRGAVHIA FPKHVEPETPFAHTIPARNSWT KWSSEHILETLSPQKPALPWAP RQQGRPLGLTAPISKRLGPGDG PEGEAGERLAQAHFINTRPST GPPGTPAAD
25332	55700	A	25472	73	424	RPGMWSTRSPNSTAWPLSLEPD PGMASACTTMHTTTIAEPDPG MSGWPDGRMETSSPTIMDIVVI *CAIAAEIVLVSLLFVMLRYM YRHMGTYHTNEAKGTGVADS ADACPAGDPA
25333	55701	A	25473	139	546	RPGMWSTRSPNSTAWPLSLEPD PGMASASTTMHNYHHCRLIPG MSGWPDGRMETSTPTIMDIVVI AGVIAAV\AIVLVSLLFVMMVAL TCNRA/HRGTYHTNEAKG\TEF AESADAALQG\DPAL\QDAGDS SRK\EYFI
25334	55702	C	25474	142	408	

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25335	55703	A	25475	44	727	ARAGSRSRGLPFCGTAGPPPKA TLWGGLRLGSLLSLCLALSV LLLAQLSDAANNFEDVRCKCIC PPYKENSNGHIYNKNISQKDCDC LHVVDPMPPVPGANVEAYCLR CECKYEE\RSSISTIKVTIIYLSIL GLLLLYMVYLTLEVILKRRLF GHAQLIQSDDDIGDHQPFQKCT RCASPLPQFEPTCWNKVEYAQ QALSFQVQEQRKSV\FDRACC PQLNLGN
25336	55704	A	25476	11	1323	VVLLVSVNTEAESEKAA TEQR /PLEGTDQTL DVEEEQEESKAA ACGSKKRVPVPGIVYLGHI PP HF QPLHVRNLLSAYG/RSPSHYDL WNLKYLHHFTWSHSEHLAFE RQVC\HRQHRLRVEVTQAKCETI FYLQSV EWGQCFLAVDGD LAH PDGSWTF AQRPT EQELRARKA AQPVGKVLNYYPTQLSLECEVP SQPMGTGHSRGLCQDVKVIN VPVSFVWCALVAGLLVVVPPPP PQAPAEVSDISLKRGLQREIEQ CRRDIQNFPFPCASEELASQLFP LMEVPQGRGTTGFMNAPLTTS EVRGLKKELKPLDDPERVAEQ IDQFLGSKLYTWT ELM SILGILF SKEERNMICRAAMGA WERDYP AGQNIPAADVTFPARDPQWNN NNAAHQKNMRDLQELIIGIKE SAPRPQNLTKAFDEQ QEKDEGP
25337	55705	A	25477	1	490	GTSGTRPLVSVNMEAESEKA\ ATEQE PLEGTEQTL YAE EEEQEE SEEAACGSKKRVPVPGIVYLGHI PPRFRPLHVRNLLSAYGEVGRV FFQAEDRFVRRKKKAAAAAGG KKRSYTKDYTEGWVE\RDTR\ IAKRVA\AALLK*PMGARRRSP FRYDLWNLKYLHR
25338	55706	A	25478	2	574	

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25339	55707	A	25479	160	1548	KTSSQTLALTMFQRLNKMVF GEVSSSSNQEPFNEKEDDEWI LVDFIDTCTGFSAAAAAEEEDIS EESPTHEPSVFSCLPASLECLAD TSDSCFLQFESCPMEESWFITPP PCFTAGGLTTIKVETSPMENLLI EHPSMSVYAVHNSCPGLSEATR GTDELHSPSSSILPNKMMLSVHV GTAIHNAALCQSVESYWQCGI QLLTQFQSQSKLGQLLAATCKE LPGPKESRRATAKDLWEVVVQIC SVSSQHKRGNDGRVSLIKQRES TLGIMYRYVLEPLVLTILSLFV KLHNVREDIVNDITAEHISIWPS SIPKKQMSSRTFMSQEETVCRA AHTPSLPEEKWVEQLIYALVVA AARIMAMWGPNAAWLVFLAA AGPPPLTPPHSP/PPPPPALGR WMGPPLRDSASGLPRPPGRISE DSGAWACGPALCPRAIPSPAP ALRVPEALRLWGTCV
25340	55708	A	25480	1	380	FTSPKTARNWGWLMQVRNQR LVLGKAGGKKGSPLEQRGGNG HHGGTRLICALVLVSMRPLAT FAEPQTETCTVAPRERQNCGFP/ GVSRRPQCANKGCCFDDTVRG VPWCFYPNTIDVPPEEECEF
25341	55709	A	25481	3	2367	
25342	55710	A	25482	2	1230	WRRSRRRRPPAPQAGGGDFRA GISPPTGKKSGLMEPQGNHYR CRCLQVAGSQAWARCVSMPEL VVQKVVGHP/LVLLSVVDHFNR IGKVGIQKCVIGLFWGSWQKK VLDVLNSFAVPFDEDDKDNM WFLDHDYLENMYGMFKKVNA RERIVGWYHTGLKIHKNGITIN ELMKRYYPNSVLIIDVNPDKL GLPTEAYISVEEIQDDGTPTLKT FEHVTSEIGAESYLEKVATGKL RINHQIIYELQDVFNLLPDVSLQ EPIKAFYLRNTDQMVVVYLASL IHSVGLTDPFC\VALHNLINNKI ANQDGDKKEGQEKES/KKDR KADKGKDKDEKSDVKKEQK NHCLKEKYRFRQDSLPPDPRVL GLELTPPVARQYSPQDLSEIPRH ADFRCDPAHFQLWWSQGETPS

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25343	55711	A	25483	3	1042	DRYCCRCRLRVAGSQAWRAGC VAMPELAVQKVVVHPLVLLSV VDHFNRIKVGNGKRVVGVLL GSWQKKVLDVSNFAVPFDED DKDDSVWFLDHDYLENMYGM FKKVNARERIVGWYHTGPKLH KNDIAINELMKRYCPNSVLVIID VKPKDLGLPTEAYISVEEVHDD GTPTSKTFEHVTSEIGAEAEAEV GVEHLLPDIKDTTVGTLTSQRITN HVHGLKGLNSKLLDIRSYLEKV VTGKLPINHQIYQLQDVFNLL PDVSLQEFVKGFYKLTNDQMV VVYLASLIRSVVALHNLINNKI ANRDAEKKEGQEKESKKDRK EDKEKDKDKEKSDVKKEEKKE
25344	55712	A	25484	257	1566	GLEHLNPNRWPLFLRAMDST VPSALELPQRLALNPRESRSP EEHPHLLS/SLAAVQTLANVIRP CYGPHGRQKFLVTMKGETVCT GCATAILRALELEHPAAWLLRE AAQTQAENSGDGTAFVLLTE ALLEQAEQLLKFGFLRPQLR/EA YATATA/EEKQVGQL/AAAGIN VAVVLGEVDEETLTLADKYGI VVIQARSMEIHYLSEVLDTPLL PRLPPQRPQKQCRVYRQELGD GLAVVFEWECTGTPALTVVLR GATTQGLRSAEQAVYHSIDAYF QPCQDPRLIPGAGATEMALAK MLSDKGSRLGPNPGLAFAR ALKYLPKTLAENAGLAVSDVV AEMSGVHQGGNLLMGVGAEGI INVAQEGVWDTLIVKAQGFRA VAEVVLQLVTVDIVVAKKSPT HQQIWNPDSSKTKKRPPVEK

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25345	55713	A	25485	145	1918	PLEYFQRSVSGVPQLLFLEHLC NPRWPLLSLRAMDSTVPSALEL PQRLALNPRESRSPREEEPHLL SSLAAVQTLASVIRPCYGPGR QKFLVTMKGETVCTGCATAILR ALELEHPAAWLLREAGQTQAE NSGDGTAFVLLTEALLEQAEQ LLKAGLPRPQLREAYATATAEV LATLPSLAIQSLGPLEDPSWALH SVMNTHTLSPMDHLTKLVAHA CWAIKELDGSFKPERVGVCAFP GGTLEDSCLLPGLAISGKLCCGQ MATVLSGARVALFACPFGBAH PNAPATARLSSPADLAQFSKGS DQLEKQVQGLAAAGINVAVV LGEVDEETLTADKYGIVVIQA RSWMEIHYLSEVLDTPLLPRLLP PQRPGKCQRVYRQELGDGLAV VFEWECTGTPALTVVLRGATT QGLRSAEQAVYHGIDAYFQLC QDPRILPGAGATEMALAKMLS DKGSRLGPSGPAFLAFAWAL KYLPKTLAENAGLAVSDVMAE MSGVHQGGNLLMGVGTETIIN VAQEGVWDTLIVKAQGFRAVA EVVLQLVTVDIVVAKKSPTHQ EIWNPDSSKKAKKHPVPVETKKI
25346	55714	B	25486	1	642	
25347	55715	A	25487	3	395	FLPVNLTHDWQGSSALATLERP LSQVRLKRFGVTLIAFMVSAIVI LATASMAVASITESVQTAAFD NMARNVSNKLLLQQGIDQKIL ALLQSLEAALEYVGEQQDALA FQQQ*NCNWDGHHKICHSPLWN
25348	55716	A	25488	3	358	HEPMCGETHQALQGAMEKLW SRFMELMQE/KKVLDLKERVEEL EHCCI*LSGERQTPSGSGKPGHG KESCTLVRGAPASESCPPAGEYI ALYQSQRVVRKEEEICISRLAQD KGEVKVKLLE
25349	55717	A	25489	1	250	VQCGGIPPGQNNKEEMEVLP PPPINRKKDKSYATAMGPFLRQ EALSGELLACLVIQD*QGNWV YKPISFNIYKKLRKSIRG
25350	55718	A	25490	1	702	
25351	55719	A	25491	1	252	
25352	55720	A	25492	1	122	LAPLVITYFSSLSLGFNLLKGL APSSWRC*GLNEIIRGKH
25353	55721	A	25493	3	505	

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25354	55722	A	25494	1	3345	MRVGFRDIVGSLSEYSFGCPVN YEVFHSVWITLCCLMANDRKP QFLYFFQFFSFHGGRLMSSFH PGNGHNSRRSVFYANEKWEF LDPTPKDLEESIVQEEKKEPTPE GNKVSQRLKNLPHTSLKAKQL LQTSSTNRGTVITATRLAFDLRT QSTKCSHPASGSSGHSTDFQLE GEWGLWDLGTKGFKLPYSLSI DIDNVKSPHFPHEKLTTLTVSLGS NRRMGLEKKECHQKQALREQ LQVHIQNVEILVSE
25355	55723	A	25495	296	1350	TLWLQGEQPSTQEIHEKV/LNE AMGAMMYHTIILTREDLEKFK APRVIVQIGSGYDNVDIKAASE LGIAVCNIPSAAVEETPDSTICHI LNL YQRNTWLYQALRGQAVA VRAKAFGFSVIFYDPYLQDGIE RSLGVQRDLLYQSDCVSLHCN LNEHNNHLLINDFTIKQMRQGAF LVNAPHGGLVDKKAQAALKE GRIRGAALYVRESEPFSAQGP LKDAPNLICTPHTAWYSKQASL EMREAAATEIRRAITGHIPESLR NCVNKEFSVTSAPWSVIDQQA HPELNGATYRYPPGIVGVAPGG LPAAVEGIIPGGIPVTHNLPTVA HPSQAPSPNQPTKHGDNREHSN
25356	55724	A	25496	694	1185	PKPFKEGTIRGAALDMHESEPF SFAQGGLKNAPNLICTPHTAWY SEQASLEMREAAATEIRRAITG CIPESLRNCVNKEFFVTSAPWS VIDQQAHPPELNGATYRYPPGV VGVAPGGLSAAMEGIIPGGIPV THNLPTVAHPSQAPSPNQPTK* MK*KQMGEVA*GAARIRGETL GLNGFGCTGQA/VAVRAKAFG FSVIFYDPYLQDVVERSLGVQR VYTLQDLLYQSDCVPLHCNVN EHNNHLLINDFTIKQMRQGAFLP PKPFKEGTIRGAALDMHESEPF SFAQGGLKNAPNLICTPHTAWY SEQASLEMREAAATEIRRAITG CIPESLRNCVNKEFFVTSAPWS VIDQQAHPPELNGATYRYPPGV VGVAPGGLSAAMEGIIPGGIPV THNLPTVAHPSQAPSPNQPTKH

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25357	55725	A	25497	290	1251	PFMLYVSISTLYIAFCHILNLYR RNTWLYQALWEGTRVQSVEQ MGEVA*GAARIRGETLGLNGF GCTGQA/VAVRAKAFGFSVIFY DPYLQDVVERSLGVQRVYTLQ DLLYQSDCVPLHCNVNEHNNH LINDFTIKQMRQGAFLVNAARG GLVDEKALAQALKEGTIRGAA LDMHESEPFSAQGPKLNAPNL ICTPHTAWYSEQASLEMREAA ATEIRRAITGCIPESLRNCVNKE FFVTSAPWSVIDQQAHPPELNG ATYRYPGPGVGVAPGGLSAAM EGIIIPGGIPVTHNLPTVAHPSQA PSPNQPTKHVDNREHPNEQ
25358	55726	A	25498	1	1538	MLLQKTQFEYAFKKKRKLEES KKRGAGPASSDPRWRGSSQTA PHASEVSGAPLGRSCETTRDTG VGPSPRQWLGAAGAGTWQHRA RAASTPSSRGLRALQTWGGGE VMNGPLHPPPPRVALLD/SRNC TVEMPIPKDLATMAFCDTHSTQ EIHEKILHEALGAMRYHTITLA RADLEKFKALGVIVRIGSGYDN VNIKAACELEIAVCNIPSAAVEE TANSTICHILSLYRRNTWLCQA WARKHVCYSMGQIREVALGG AHIGGETQG\LIGFGSTGQAVPV RAEAFGFSVIFYDPYLQDGIERS LGVQRMSQGAFLVNAARGALV DEKALAQALNNGKIR/GAALDV PQSELSFAQGSLEMREAAATE IRRTITGCIPESLRNCVNKEFFVT SAPWSVIDQQAHPPELNGATYR YLPGFVCVAPGGLPAATEGIIIPG GIPVTHNLPTVAHPSQAPSPNQPT TKHGDNPEHPNEQSRECRKVII QIHLRPRDSEKLMNSEKTNLTV FLADSGHMHY
25359	55727	A	25500	1	2595	
25360	55728	A	25501	561	1023	SGHDAYREQIQEYRVISLLLN NDHVNKCQSTNDAYPTGFRIA VYSSLIKLVDAINQLREGFERK AVEFQDILKMGRQTQLQDAVPM TLGQEFRAFSILLKEEVKNIQRT AELLLEVNLGATAIGTGLNTPK EYSPLAVKKLALKSLAFVGNLF
25361	55729	A	25502	2	227	
25362	55730	A	25503	262	428	

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25363	55731	A	25504	389	2310	ATSGPPGRSLGSACTIWVLVWT GSIPIYSFHGKVEKYMCFHNMS DDTWSAKVFFPLEVFGFLPMG IMGFCCSRSIHILLGRRDHTQD WVQQKACIYISIAASLAVFVVSF LPVHLGFFLQFLVRNSFIVECRA KQISFFLQLSMCFSNVNCCLD VFCYYFVIKEFRMNIRAHPSR ATEEVSKNLVAMKEILYGTNE KEPQTEAVAQLAQELYNSGLLS TLVADLQLIDFEASLGLHGLEQ AVDLALPIAQAQGEVLNNGKC MDQFPVDVYQGGAGTYVNMS TNEVLANICLGLMGHQKGEYQ YLNPNHDHVNKCQSTNDAYPTG FRIAVYSSLIKLVDAINQLREGF ERKAVEFQDILKMGR TQLQDA VPMTLGQEFRAFSILLKEEVKN IQR TAELLLEVNLGATAIGTGL NTPKEYSPLAVKKLA EVTGFPC VPAEDLIEATSDCGAYVMVQG ALKRLAVKMSQICNDLRLSS GPPGASSIMPAKVN PVVPEVVN QVCFKVIGNDTT VTMAAEAGQ LQLNVMEPVIGQAMFESVHILT NACYNLLEK CINGITANKEVCE GYVYNSIGIVTYL NPFIGHHNG DIVGKICAETGKSVREVVLERG LLTEAELDDIFSVQNLMPAYK
25364	55732	A	25505	133	375	
25365	55733	A	25506	3	505	ARGREGVSRRRERPLLSARRLGA EWDSAGAETASGLQVPRLGGS WPQTSVFSAAVKARGCRIATLP MDLIGFGYAALVTFGSIFGYKR RGGVPSLIAGLFVGC LAGYGAY RVASNDKRECKKCHWFTAFLPG LPSMGVRFKR SKKIMPAGLVA GLASLM MILRLVLLLL
25366	55734	A	25507	244	696	

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25367	55735	A	25508	1	1442	MGQLHQAQASADIATSRLLQQT SLTDVTRHQQFFSTYNTDDFIQ FTATYREQTRRRQRQYAVNH VTFFFGKCTFRDRHRHRVIGIVL NIGLTFPAHQTDGIGSTRSQR QSRLVANKVATRNLVKHFDDD REANRGIQEAQTEHHHRGVLV NESRQRFGCQQHNRHRNHYYR HHHRQMVNHPYCSNYRIQRED GVKDDNLCDDHPETGIQLYASL LLQVFFFAANIYGWYAWSRQT SQNEAELKIRWLPLKALSWLA VCVVSIGLMTVFINPVFAFLTR VAVMIMQALGLQGVMPELQA DAFPVWDSCMMVLSIVAMILM TRKYVENWLLWVIINVISVVIF ALQGVYAMSLEYIILTFIALNGS RMWINSALIHQVVLDLIQQGIVI VWRDHLHMQRLLHRLAYHPC MYLVHIADFRDFPAHTRLQVQ RFPAPVHLQVIHSRYLSTVATR YAESEATPVSGALGLLCPTLPIV
25368	55736	A	25509	133	375	
25369	55737	A	25510	2	471	AFAQRETAGRRVGQRWCGDCF RTPGTALGGSWPQTSVFSAAV KARGCRIATLPMDLIGFGYAAL VTFGSIFGYKRRGGVPSLIAGLF VGCLAGYGAYRVSNDRKRECK KCHWFTAFLPGLPSMGVRFKRS KKIMPAGLVAGLSLMMILRL VLLLL
25370	55738	A	25511	3	432	NSRVDDFVAAQDAKGKKVAP APAVVKKQEAKKVVNPLFEKR PKNFGIGQ\QRLLARA EKAAG KGDVPTKRPPVLRAGVNTVTT LVENKKAQLVVIAHDVDPIELV VFLPALCRKMGPYCIHKGAR LGRLVHRKTCTTVAFT
25371	55739	A	25512	59	882	SRLKNASIFVASPSGKKAKGKK VAP/APAVVKKQEVKKVVNPLF EKRPKNFDIGQDIQPKRDLTSFV KWPLYQRQRAILCKWLKVP EINQFTQALDHQTAALLQLAH KYRSETKQEKQRLLALAKKK AAGKGGIPTKRPPVLRAGVNTI TTLENKKAQPVVIAHDVDPIE LVVFLPALCHKMRVPYCIHKGE ARLGRLVHRKTCTTVAFIQVNS EDKGALAKLVGAIRTDYNDY NEIRRHWWGGNVLGPKSVACIG KLEKAKAQELATKLG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
25372	55740	A	25513	1	833	GTRPKMPKGKKAKGKKVAPAP AVVKKQEAKKVVNPLFEKRPK NFGIGQDIQPKRDLTRFVKWPR YIRLQRQRAILYKRLKVPPAINQ FTQALDRQTATQLLKLAKHYR PETKHEKKQRLARA EKKAAAG KG\DVPTKRPPVLRAGVNTFT PL\VENKKAQLVVIAH\DVDPM RGWLSFLPAL\CRKMGPYCIK GK\ARLGRL\HRKTCTTV\AFT QVNSESQRRLWAKLVEAIRTN YND\RYDEIRRHWGNDLRPK\ SVARI\AKLEKAKAK\ELATKLG
25373	55741	A	25514	1	1176	MEKELVDHTGLFLSAHASEAL ALKLMIYSEVAHKLRAVRSQH PDMGVSLPLTPANSCPKTIERM RRSRELEREKDQSIETHLPWA FGSTFLKTPLSCKTLMKYICYA FIINLSFVKGVSAVTLMMSEES NMQMQFSVSITSGFPFKSHIIA AIPNAERKESQGEKMAPAPAVI KKQEAKEVVNPLFEKRLKNFGI GQDIQPQRDLTRFVKWPHYIRL QRQRAILS\AHKYRPETKQEKK QRLLAQAKKKATSK/EDIPTKR PPVLRAGVNMVTTLVENKKAQ LVMTAHDVDPIELAVFCLPAPC CKKGVYCIKKGKARLGHLVHR KTCTTVVFTKVNSDKGALAK LVEAIRTN\RYDEIRRHWGNDLRPK\ NVLGLKSV\AHIIKLEKAKVKEL
25374	55742	A	25515	2	524	
25375	55743	A	25516	144	412	AGSCPFAAGPGPLGSGRCFVLIR FILIQNRAKTRLAKWYMQFD DDEKQKL\EEVHAVVTVRDAK HTNFVGVS\GTFKILPPLWLASN
25376	55744	A	25517	38	476	
25377	55745	A	25518	235	892	RSRVGTNRFLGETYPRASPGPQ STALLTAYKKMTDLVAVWDV ALSDGVH\KIEFEHGTTSGK/REV VYVDGKKEIRKEWMFKLVGKE TFYVGAAKTKS/ATINID\AISGF AYEYTL\EINGKSLKK\YMEDRF KNPPILWVLHM\DG\ENFRIVLE KDAMDVWCNGKKLETARDFC KMSDTISDDTKVDEQERALSRT PEDKWNFRPAVPMRGERGSPS HCGQAH

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25378	55746	A	25519	1	1233	MQLKFPGRQKIHISKKWGFTKF NADEFEDMVAEKRLIPDGCGV KYIPNRGPLDKCHHGKCVATG TSYMCKCAEGYGGDLCDNKN DSANACSAFKCHHGQCHISDQ GEPYCLCQPGFSGEHCQQGLLG GVREMLRCKVRSNIVTMKAKL SFRICMTLTILANMWPRPILGG VDQIPIPKSKVLYLGAASGTT VSHVSDIIGPDGLVYAVEFSHR AGRDLVNVAKKRTNIIPVLEDA RHP/HQPDQARSVALNAHTFLR NGGHFLISIKANCIDSTASAEAV FASEVRKLQQENLKPQEQLTLE PYERDHA VVDYSSSSATEQRRT ENDSDKLTEVGFRKLVINFSKL KEDVRTHHKEVKNLKRLDEW LTRINSVEKTLNDLMEAENHGT KKYVTQAQASVAYLIKWKKG
25379	55747	A	25520	78	978	AAGHSAKKSCLSLPAWSFPLG STRAQWHVRRQLQARISGGGRH RCGRRGQ\GKTRRRMGPMVVS VEPHRHEGVFIYRGAEADALVTL NMVPGQSVYGERRVTVTEGGV KQEYRTWNPFRSKLAAAILGG VDQIHIKPKSKVLYLGAASGTT VSHVSDIIGPDGLVYAVEFSHR AGRDLVNVAKKRTNIIPVLEDA RHPLKYRMLIGMVDVIFADVA QPDQSRIVALNAHTFLRNGGHF LISIKANCIDSTASAEAVFASEG EKLQQENLKPQEQLTLEPYERD HACV\VG VYRPLPKSSSK
25380	55748	A	25521	230	314	QMPGNNPAFSA*CDAGASYQA YVNSAIY
25381	55749	A	25522	1360	1848	RFRALV/TEGFSLRELFPAVATVL VASST\VTKRIFLLAAD\URLA LRRSITHPFVRKQELTVYTLNN ELENLLTNVVNQAAQQGGKVML DSVPVDPNMLNQFQSTMPQVK EQMKAAGKDPVLLVPPQLRPL LARYARLFAPGLHVLSYNEVPD ELELKIMGALM

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25382	55750	A	25523	91	1184	AAACSPPPPARLTYGSETLRGG DCSKMAAGCCGVKKQKLSSSP PSGSGGGGGASSSSHCSGESQC RAGELGLGGAGTRLNGLGGLT GGGSGSGCTLSPPQCGGGGG GIALSPPPSCGVGTLLSTPAAA TSSSPSSSS/APASSSSPGSRK\M VVSTE\MC\CFCDVLYCHLYGI VQPARPPRFTNEPYPLFVTWKIG RDKRLRGCIGTFSAMNLHSGLR EYTLTSALKDSRFPPMTRDEL RLFCSVSLTNFEDVCDYLDWE VG\H\GIRIEIHQCKKASKR\TA TYLPEV\AKEQGW DHIQTIDSL RKGGYKAPITNEFRKTIKLTRY RSEKMTLSYAEYLAHRQH HHHF QNGIGDPLPAYNHYS
25383	55751	A	25524	3	154	
25384	55752	A	25525	575	1707	TALLLTQSLFGGLFTQTHMKFG AVTRI*NRKTGNSKKQSTSPPK ERSSSPATEKSWMENDFDELRE EGFRRSNYSELREDIQTGKEV ENFERNLEECITRITNTEKCLKE LMELKTKARELCEECRSLRSRC DQLEDCLLKKLHSHQANPEFDL ITEHLTLCIRISIQIKAYLSLSKA QSSLSHRPPTYLAYLFNGFRLF KNLKAYLHPGEINSFIAHTKPV WWSLHTDAHEIWCRSDCLKLV PTLPLIPLEAALRNITHSLSIPP KNFRPNTSTLFCVIFLINIRRQE YQASEPKPSHRIPCDLQRIKYL IQLTRDVKDLFKENYKPLRNEI KEDTNKWKNIPCSWVGRINIVK MAILPKPLLVIPRQTGSGMDPQ QTSGDLQKCLTVLRKTNKQKAI ASTSRKRMTMQKLHLKEKLINS KDQRTNDKNHMIISIDAEKAFN KTEHRFMLKTLNKLINSRWIK DLNVKPKTIKLEENLGNTIQDI VMDKDFMTKTPKAMATKAKI DKWDLIKLSFCTAKETIIRVY RQPTERESIFVIYPSDKGLISRIY KELAI PGKGNSSNVSKDSKMSK HQM MQGENKHD

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25385	55753	A	25526	110	569	TALLLTQSLFGGLFTRTRMKFG AMTRIG\DLPWEINPLSSCSLLC EKHPPTTSGPQTDQPKKHLTNF KSETKETCFIHEPKTLAPVTDW EGSLPLVFNHCRDGLSDHSATF QGCQTMQGCLPWSFTLSGKSR FSGEGANHHGHRASGNSHSGS
25386	55754	A	25527	2	464	LFGGLFTRRRMKFGAVTRIR\DF PWEINPLSSCSLL/CEKDPRRTTS GPQTDQPSKHLTNLKSASTPPP YNPFITSPPHTRSGLQFRSTSSPP APAQQFTLKKVAEAKGIVKVN APFSLSDLQSIVRLGSFIKYEKS SPVHGSFGSNPETLYSPRP
25387	55755	A	25528	162	206	
25388	55756	A	25529	74	446	TAMLLTQSLFGGLFTWTRMKF GAVTRIG\DLPWEINPLYSCSLL SRFKKIKACYHSPATSWPFKTY KLSLQLPHFTCPKTRQALQVSS GAVPYQPNCFAYPPCGAQPVPS FVLNTFLHNSLCRA
25389	55757	A	25530	66	311	FGAVTRIG\DLPWEINPLSSCSLL REKEPPTTSGPQTNQAKKHLTN FKSGACYTCRKSGHWAKECPQ PGIPPKPRPICVGPH
25390	55758	A	25531	728	825	MKFGAVTRIG\DLPWEINPRSSC SLLHEKDPPM
25391	55759	A	25532	291	311	TALLLTQSLFGGLFTQTHMKFG AVTRI*NKKNNTK
25392	55760	A	25533	1	1056	
25393	55761	A	25534	245	487	TALLLTQSLFGGLFTQTRMKFG AVTRIG\DHPEINPLSSCSLFQ EKDPPTT/SGPQTDQPKKHLTNF KSTSFVFSSCIPPP

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25394	55762	A	25535	818	2391	TALLLTQSLFGGLFTQTRMKFG AVTRIG\DI PW EINPPSSCSLFLP/ RLPLLHFP GAGPSTPQPLL/HSPS AASPAFLGQGQDLINLVFKVYN NRKKLQFLASTVTQT PATSPA H KNFQTPEPQQPGVPPEPPSPGAC YKCQKSGHQAKECPQLRIP HLS YAWTFNDNPLYVQEDNRRFVS QETGNLYIAKVEPSDVGN YTCF ITNKEAQRSVQGPPTPLVQRTD GVMGEYEPKIEVRFPETIQAAK DSSVKLECFALGKIDDSIREKG AIRIKPSSILMRCNCLVQSPILVG EGWTGARCQGKSSTANPKLSL KSRTSNKKMKAFMSALQATFE EETLQRVNSFFMHNVL DNCLLP NSGTCLFETAPPEWEQKIQNTH LSIYDNLLWECKASGKPNPWY TWLKNGERLNPEERIQIENGTLI ITMLNVSDSGVYQCAAENKYQI IYANAELRVLGSQLVHFRENGT CLSDEVIRDSDFMSGMTVVHAF TSGSQGTTTENQDELQIKFISAR HSQATEGINSTSAKFD
25395	55763	A	25536	425	749	IASLLTQSLFGGLFTWTHMKFG AVTRT/RGDLPWEINPLSSCSLL HEKDPPTTSGPQTDQPKKHLTN FKSAQLKASGK/DLQKPYQHFQ TLQQLLPLQWAPCYGPSSVSI

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
25396	55764	A	25537	2	2204	IDMIFTPGPPSTPKHKKSQKGS AFTFPSQQSPRNEPYVARPSTSEI EDQSMGKFKVVERQVQDMG KKLDFLVDMMHMQHMERLQVQ VTEYYPTKGTSSPAEAEKKEDN RYSCLKTIICNYSETGPPEPPYSF HQVTIDKVSPYGFFAHDPVNLP RGGPSSGKVQATPPSSATTYVE RPTVLPILTLLDSRVSCHSQADL QGPYSDRISPRQRSITRDSOTP LSLMSVNHEELERSPSGFSISQD RDDYVFGPNGGSSWMREKRYL AEGETDTDTPFTPSGSMPLSST GDGSDSTVPLFLSSEILQKQVG QSITSMGLFLSRGSPMKLCMGL ACVLSLWNTVSGIKGEAKKEK GMTFLPTTDSKKFFSLLSVTSYS SFAFHKFSVAVYNISNLKTVDP AKFPTRYCYCLNNRTNDLSDF ALLVDIIGNSTSYLTEIFKSTSIL SVNQSNECDCIFICVMTGKSGR NLSDFWEIEEKYPIINYFTSGL SGVLALLLTQSLFGGLFTRTRM KFGAVTRIG\DLPEINPLSSCS LLHEKDPPTTSGPQTDQPKKHL TNFKSAARPTFLGQGVPLNPF SFTLSGKSCFPRRQEPNRLFPH PNLLSLCPNPLFCPNPFSTFLE GKNHHHPFVSQVFSGLPPS LWEHSPMAHRLRVQPRQQPPDI HKQVISLQSGHSLLVKSQWSQ DPIKFQLPHHKNTASVCINPSV
25397	55765	A	25538	110	542	TALLTQSLFGGLFTRTRMKFG AMTRIG\DLPEINPLSSCSLLC EKHPPTTSGPQTDQPKKHLTNF KSETKETCFIHEPKTLAPVTDW EGSLPLVFNHCRDGLSDHSATF QGCQTMQGCLPWSFTLSGKSR FSGEGASCSLPG
25398	55766	A	25539	1	781	MPLQPLATPFTSPGSPSVAQVT TNTGEPGFAQQEYAETPQTAR PPHPALRALQASVHQTPLG DCLGSSSATALHSGEPNKLA PPGRPTERGGFKCSVPLRTVR GCRAGLRGTTETVPSSLQRQPAG DVGWINNKSTALDRTPTDTQ RTRRPRPPKQKQGRALKERPR DSDSAREGPLKAVAGLFGGLFT RTCMKFGAVTRIG\DLPEINPL SSCSLLHEKDPPTTSGPQTDQPK KHLTNFKSDLLSLATED

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
25399	55767	A	25540	1571	1781	TALLLTQSLFGGLFTRTRMKFG AVTRIG\DLWPWEINPSSSCLLRE KDPPTTSGPQTDQPKKHLTNFK SA
25400	55768	A	25541	2150	3195	TVLLLTQSLFGGLFIWTRMKFG AVTRIG\DLWPWEINPLSSSCLLH EKDPPTTSGPQTDQPKHLTNF KSD
25401	55769	A	25542	4688	5149	TAMLLTQSLFGGLFTRTRMKFG AVTR/IRGTDLPWE\INPLSSCSL LREKDPPMTSGPQTDQPKKHL TNFKSGACYTCWKSQHWAKER PQPGIPPKPRPICVGPLKIRTCS THLGQATPRAPGTAAQGSLLTDS FPDLLGLAAEDSHCLIAEAP
25402	55770	A	25543	1	433	MAAFPAALNRPTRARARRRRIS AHSAAASAAAVVAGTARGM VPGSEGP\CRA\GDEVADWEIVI EGTANLGPYFEGRLKHYLLPAI EYFNGGPPAETDFGGDYGGTQ YSLVVFNTVDCAPEYVQCHA PTSSAYEFVTWLDGIK
25403	55771	A	25544	1	235	
25404	55772	A	25545	1	301	
25405	55773	A	25546	2	438	
25406	55774	A	25547	1058	1494	KSVRLVVN/YLRTQKAVVRVSP EVPLQNILPVICAKCEVSPEHV LLRDNIAGEEELSKSLNELGIK ELYAWDNRRVPSAVPMQGPWP AEHFLQVNEQPPAGSPSPCPSS SSSSGLRGGMQTANGPACALTP TCAQTDPCPTSH
25407	55775	A	25548	1	3965	RRFQPLPSAALRRCPPPARVGG RWVSAEKVNEGGSGGGGSQRL TRRARSTARVPAGTMDAPRAS AAKPPTGRKMKARAPPPGKA ATLHVHSDQKPPHDGALGSQQ NLVRMKEALRASTMDVTVVLP SGLEKRSVLNGSHAMMDLLVE LCLQNHLNPSHHALEIRSETQ QPLSFKPNTLIGTLNVHTVFLKE KVPEEKVKPGPKVPEKSVRLV VNYLRTQKAVVRVSPEVPLQNI LPVICAKCEVSPEHVVL
25408	55776	A	25549	1	388	

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25409	55777	A	25550	1	1748	MVLARVARRPAGSAEAQASLA GKAALPERARKMSSPGIDGDPK PPCLPRNGLVKLPQPNGLGAA SITKGT PATKNRPCQPPPPPTLP PPSLAAPLSRAALAGGPCTPAG GPASALAPGHPAERPPLATDEK ILNGLFWYFSACEK\CVLAQVC KAWRRVLYQPKFWAGLTPVLH AKELYNVLPGGEKEFVNLQGF TARGFEGFCLVGVSDLDICEFI DNYALSKKGVKAMSLKRSTIT DAGLEVMLE\QMQGVVRLELS GCNDFTEAGLWSSLSARITSLS VSDCINVADDAIAAISQLLPNLA ELSLQAYHVTDTALAYFTARQ GHSTHTLRLLSCWEITNHGVVN VVHSLPNLTALSLSGCSKVTDD GVELVAENLRKLRLSLDLSWCP RITDMALEYVACDLHRLEELVL DRCVRITDTGLSYLSTMSSLRSL YLRWCCQVQDFGLKHLALGS LRLSLAGETPVSA TLAVTTH PHLVHPPNLPGPCANSHPARTH SPGSEAE EEGGAARPSPEPWA ARTEPPSDPAAGCPLLTTTGLS GLVQLQELELELTNCPGATPE LFKYFSQHLPRCLVIE
25410	55778	A	25551	1	377	MRRLTRRLVLPVFGVLWI/DGA AVLLGNQEEVGGAD/WDLKCR PL/EVNVSKSDDTLKINGVEDH KTIFDGDGKTYQNVQQFIDEGN YTSGDNHTL/SRPSLR*RQRP*IP CIRSQHGNRKRIPIRRIFI
25411	55779	A	25552	222	287	
25412	55780	A	25553	2	918	GHCEVNRDWLQPLLHRVKEDY TRVVCPVIDIINLDTFTYIESASE LRGGFDWSLHFQWEQLSPEQK ARRLDPTPIRTPIIAGGLFVIDK AWFDYLGKYDMDMDIWGGEN FEISFRVWMC GGSLEIVPCSRV GHVFRKKHPYVFPDGNANTYI KNTKRTAEVWMDEYKQYYA ARPFALERPF GNVESRLDLRKN LRCQSFKWYLENIPELSIPKES SIQKGNIRQRQCLGISKGRITK KPQT*S*ALCQQQRRRCQSPRV WGLSHYTQADSFQGELVALFSS FTFVSLGAPVVSCSFARMGD

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25413	55781	A	25554	84	2804	PRGSWRCRRDLKCRPLSHSDA DWDDLWDQFDERRYLNAKKW RVGDDPYKPVCFSTSGRVSGSP AIRAIPDTRHLRKKATSNSLSRQ QLASPLPRSSYCGVTPGPIAIGP LWTSGSLRTPNHIDTVFAPGLP QPWFHLNYLRAMPSLSSAPKCT LLVYCTDLPPTSIITFHNEARST LLRTIRRPPAVSTSQMAMTAAA LTPAPLRTYSVHLSCRAHQLVP MPQRKKYDETWVREHTKHSKI SLFPSCRLHFCLSRRRMAVGS GKFQVMGDLGEPFLRVRWLRI WTLGPDFHGSALNSVLNRITPT HLIREIILVDDFSNDPDDCKQLI KLPKVKCLRNNERQGLVRSRIR GADIAQGTTLTFLDSHCEVNRD WLQPLLHRVKEDYTRVVCPI DIINLDTFTYIESASELRGGFDW SLHFQWEQLSPEQKARRLDPTE PIRTPHAGGLFVIDKAWFDYLG KYDMDMDIWGGENFEMMTVQ VLQPRRSEALICTWKVHHLTRE STALLIALVQAPFTGPQAKKLQ QSPCPAMLAPEYAPEASVLVCT VSLLTYTTLQSEISFRVWMCGG SLEIVPCSRVGHVFRKKHPYVF PDGNANTYIKNTKRTAEVWMD EYKQYYAARPFALERPFQNV ESRLDLRKNLRCQSFKWYLENI YPELRYPSYLLELWLAESRGPQ LAWSGEETDNDQLDEGFYVYQ

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25414	55782	A	25555	1	2439	MPLKKKGDEPQMEKYIQERSM LAPPCSDHRDTHSRCIPHIQRL FQCPLGPWFQGEQRNQARGEG GALHPLPVTAGTVALPGAAQPT PARGNVTESLQGATVKLVCKK TSFIFIYCQHPAQCLALACDHEC IDLCTHVASTSLCLRGYQGMKR TIERALTATLAQGTAVPPFPSDV PSQKDAAVRGKGDGSEWERTL TMKRSLNLNSEKILPAILLTEFP RHQSPCSFDPKPHHPNTLGCWLP TVLETRGGTNGQSSGKREATLC PCPLLGLPISEEDCVPPALLPPR G\LPPGLQLSWAPVPQFPPLGPS SLGIPA/LPLVLNLGCLPSLVCPP TSAHTSEVAPSLKSPAEPSPPAR LPRSHQPALSREMRHSDYSVSV HAICWDHDFYTLVTHYMNNTS PISSKRSSDKLNPHVLVVQDSM TILSLHNHLALAGQDMMVWEP RKTLQRRQOPDSSSHSPPALV ECHPLEPEPLVAGIMYSFSGLQ GVGLRDRAVDETNRNEKRTL EMSRVEALSSFENSEFGCPPSIN TREITGNSLEGNVKKGVSPNC TAPGKRTEKKYSKIHVMVKHS GNCKRTDGIWEEYGWSWRLH MKKVFPGFMLVKGGEDAAPGT KEIKSVSGIFQRGKKKPRGRKE KNRKKRGFAFSKETNFVYLLIL VCLIGKVVVWLTSACAEKPKP HGEATCRHSGPSAPLNFQPTRV
25415	55783	A	25556	2	1178	AKCVEVCGKREPPSMSPLNQSA EGLPQEASNRSLNATETSEAWD PRTLQALKISLAVVLSVITLATV LSNAFVLTTILLTRKLHTPANYL IGSLATTDLLVSILVMPISAIYTI THTWNFGQILCDIWLSSDITCCT ASILHLCVIALDRYWAITDALE YSKRRTAGHAATMIAIVWAISI CISIPPLFWRQAKAQEEMSDCL VNTSQISYTIYSTCGAFYIPSVLL IILYGRIYRAARNRILNPPSLYG KRFTTAHLITGSAGSSLCSLNSS LHEGHSHSAGSPLFFNHVVKIKL VTVALKRKEDSAARERKATKIL GIILGAFIICWLPFFVVSLLVPIC RDSWWIHPALFDFFTWVGYN SLINPIIYTVFNEEFQAFQKIVP FRKAS
25416	55784	A	25557	3	146	

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25417	55785	A	25558	45	592	PSPPPPARAPSARTRRAPIPAAG QGRARPPRTVSRCSAAMATKI DKEACRAAYNLVRDDGSAVIW VTIKYDGSTIVPGEQGAHEYQHFI QQCTDDVRLFAFVFRFTTGDAM SKRSKFALITWIGENVSELQRA KTGTDETLVKEVVQNFAHEYVI SDRKELEEEFIKS\ELKKAVGAN YDAQTE
25418	55786	A	25559	249	1808	INGGTLTVTLSTVNQGAETLPF GTGWHYPFPLSPQTRJQAQASG YWLEREQWLAGEFCEQLPQEL DFNQAPLPRQWVNNGFAGWN GQARIEQPQEGYAIIMETTPAP CYFIFVSDPAFDKGYAFDFFCLE PMSHAPDDHHRPEGDDLIALAP GESTTSEMSLRAYNDRNRSDK AFTPHPTCFPSNQNSASPTIT PDTATIAPVSHKAFAGNALRSII SDGKLTAGSVINNASAGAVPIP ASIIIVCTIGISAAVGMTNKHAT AIDTTHIMLLSTAPSAWGNNQT RAAPNTSLLAAYRFLIDSRDTE TDSRLDGLSDAFSVFRCHSIMN CVSVCPKGLNPTRAIGHIKSML LQLPPNVEKFAGAYLIQFALFQ PLTHNRLMFFGAFADFLHADQ TFPGQITAAVKGQFVRRRLRFF AIISPSRTLS/YHTP*PRR*PR*SN FVTGRDAGRGLYNRQ*KTS/PS SICSA*GANPVVHHAMTVKFA* WQPIMKISSTSFPSMRPLSHMK TINGLTTFFVAW
25419	55787	B	25560	1	567	
25420	55788	A	25561	1	741	MLILISPAKTLDYQSPLTTTRYT LPELLDNSQQLIHEARKLTPPQI STLMRISDKLAGINAARFHDWQ PDFTPANARQAILAFKGDVYTG LQAETFSEDDDFDAQQLRMLS /GLPYRLEMGIRLENAIRGKDLY QFWGDIITNKLNEALAAQGDN VVINLASDEYFKSVKPKKLNAE IIPVFLDEKNGKFKIISFYAKK ARGLMSRFIENRLTKPEQLTGF NSEGYFFDESSSNGELVFKRY EQR
25421	55789	A	25562	3	320	IGLVLPISVRKRHAASARCLVN RRPMPRLHGLPGIPMRPPSLPRV RHAGTVFRRHRKRGSPMAY*Y GHSDVVKHREALVADLCHKAA FQLCRGQRHCRPALWRHR

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25422	55790	A	25563	1600	1908	
25423	55791	A	25564	142	326	TRRAPSAISSRCCCNHQTSKSS LVRTSSSLRSSSHLRTIA*CSSV HLPISCMQIRPSQAR
25424	55792	A	25565	1	1599	
25425	55793	A	25566	393	611	HSRAVCRFYPAKTSFPFVRRCR YRQFVPR*HQNE*AGRE*QPCSI ATVLPYRALPSLAHPRLSADQL PAAHL
25426	55794	A	25567	971	1628	
25427	55795	A	25568	3	1895	
25428	55796	C	25569	1	2505	
25429	55797	A	25570	1	3345	
25430	55798	A	25571	457	790	PSFRRRYRQVVVISVRKRHAAS ARCLVNRPMRPLHGLPGIPMR PPSLPRVRHAGTVFRRHRKRGS PMAY*YGHSDVVKHREALVAD LCHKAAFQLCRGQRHCRPALW RHR
25431	55799	A	25572	1662	1767	
25432	55800	A	25573	3	603	RLRSLFFLPDKMKLKDCVMIKK IFALPVIEQISPVLSRRKLDELDEL IVVDHPQPPSGDYTLHPLPIIR ANRPNRFRINAGCTRFTLSTPI NVFRHKILRTQEFPSLTHHAYSP LLVVINKAKFDGLSPEFQQALV SSAQEAGNYQRKLVAED/LAK NHRRHRSRGRS/LSPISTAKPL ATHWGIRFATCLLKMCRRRELIC
25433	55801	A	25574	2271	2519	HRQLVIVFQQPLVSGFHEAELS LDDAKWVLHPVARMALAFMYSM LMAVLFLRGCCFKVLTLPGRSA ISQSTSTSASSSRCGAPW
25434	55802	A	25575	931	1213	
25435	55803	A	25576	1	2767	MAILSGLRCSIVANYIYAENNL FWLRLNPNKAIWCLRICTFATV IGGTLLSLPLMWQLADIIMACM AITNLTAILLSPPVHTIASDYL RQRKLGVRPVFDPLRYPDIGRQ LSPDAPLTTTRYTLPELLDNSQ QLIHEARKLTTPQISTLMRISDK LAGINAARFHDWQPDFTPANA RQAILAFKGDVYTGLQAETFSE DDFDFAQQHLRMLSGLYGVLR PLDLMQPYRLEMGIRLENARG KDLY\QFWGDII
25436	55804	A	25577	395	467	
25437	55805	A	25578	1	675	
25438	55806	A	25579	1	4014	

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25439	55807	A	25580	1802	2385	RKISAPALIKSRTG*EMASLPTS/ HDKQIEQALADVDPVIVGVGGS YHLAESYPPVHYIATDNYALVE SAFLHLKEKGVNRFAFYGLPES SGKRWATEREYAFRQLVAEEK YRGVVYQGLETAPENWQHAQ NRLADWLQTLPPQTGHIAVTD RARHILQVCEHLHIPVPEKLCVI GVMNRRTRVRSFRESLKISP
25440	55808	A	25581	1	1568	MVKQLKLVSFLLRPGDSKQGY DKHSSLQVGLMIPVCSCIRFRKP SEQSFKFEEGTDAAFHGFVLW PCTMLNVTPIKGMMTVIYEFV DSETTLQNYDIYFTNEELTDEQ KSLIEWYRDVFRPEDLRLVESV QKGLKSRGYRGQGRIMADSSG SGISEHAWCMSRGAQGRQFCK GAKMSQVLITGATGLVGGHLL RMLINEPKVNAIAAPTRRPLGD MPGVFNPHDPQLSDALAQVTD PIDIVFCCLGTTTREAESKEAFI HADYTLVVDALTGRRLGAQH MLVVSAMGANAHSPFFYNRVK GEMEEALIAQNWPKLTIARPSM LLGDRSKQRMNETLFAPLFRL LPGHILLEELNWKTWAERWNS MLGPRAVKVFFSLAFLPGTLEP AQILFPTQRQGKKAALLLGLW KLEIYSDNRRSPEVSTAWNSPP TGKLDNKQYMIMIPRKRENTT TRGASNARLDPPSRKGYKGHY ETIGHALEHDKQSQGSYNVEHT IKRQTPrVRRCTSIAGIYQELG
25441	55809	B	25582	1	1560	
25442	55810	A	25583	1	2115	
25443	55811	A	25584	3036	3957	RIYDAVSEPAEPVDCPRNPVCR FY*QYRDHRGKTVYDVASGDA LFISELG/PLPENVTWLSPEGEFQ KWN/GTAWVKDTEAEKLFRIRE AEETKNNLMQVASEHIAPLQD AADLEIATEEEISLLEAWKKYR VLNSRAMALILTPDLIRSNTACF CSSFVLAGQTAKAAADDGLFPP IFARVNKAGSPVAGLIIVGILMT IFQLSSISP NATKEFGLVSSVSVI FTLVPLYTCAALLLGHGHFG KARPAYLAVTTIAFLYCIWAVV GSGAKEVMWSFVTLMVITAMY ALNYNRLHKNPYPLDAPISKD
25444	55812	A	25585	1	2490	

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25445	55813	A	25586	368	761	LYCEACIMAFRMSEQPRTIKIYNLLAGTNEFIGEGDAYIPPHTGLPANSTDIAPPDIPAGFVAVFNSDESSWHLVEDHRGKTVYDVASGDALFISELGPLPENVTWLSPEGEFQKCSGTTTRVKNKA*TLF
25446	55814	A	25587	1	809	MPVSSYERGHAEKRUVQECGINTSSANTILSDCERVNGYCVLCHTTRALVTGNHHRNAVYAETPSNSRINYIVSSHNAFRMSEQPRTIKVYNLLAGTNEFIGEGDAYIPPHTGLPANSTDIAPPDIPAGFVAVFNSDESSWHLVEDHRGKTVYDVASGNALFISELGLPENVTWLSPEGEFQKWNGTAWVKDTEAEKLFRIREAETKNNLMQVASEHIAPL\QDAADLEIAEEEEISLLEAWKKYRVLLNRVDTSTAQDIEWPALP
25447	55815	A	25588	1	2301	
25448	55816	A	25589	718	1131	
25449	55817	A	25590	279	513	CRRIDTWQPIYQTCGRLMAVELTVVTHPLNPSQRLPPDRYFTEITV/SHRMEVVKEQIDLLAQKAFSLAYLSPCESGL
25450	55818	A	25591	1	407	PQDNAKKLRPHQLSSDEGHTGMGGTAKDVGFVSMRTYSWISSALPKRLGGGVMPIGATIAATEEVFSVLLGNPFLHTTTFGGNPLACAAALATINVLL\GRTYRLRLSKKAICCWTVSVNWRGNIPIWYRKRVVKGC
25451	55819	A	25592	1	2079	
25452	55820	B	25593	1	700	
25453	55821	A	25594	1427	1845	ACISGFSTETSASGRVSVITDASLFRVLPVCGMAVAATKRSGRIITSEALCCANQLRRRPCVSPTRSTPSWLSCAV*ICTSGTT*MKRVPNARHCWICSSLIPHSGLHPQPIAKFAPIALSSSVTSPFSSVTFG*IN
25454	55822	A	25595	2	295	
25455	55823	A	25596	1	900	
25456	55824	A	25597	1	1422	

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25457	55825	A	25598	2	535	YGNREQRAVSSHTNTWVNRAL ARGWSSLGYRWWVSAWTPSR RFISQLMSRPVDASAAKVKRSA SVPCGSIPFGNCFVRLRLSASC GCIILPVRFSSSSGSEIPSTISSGSI TLPLDLDFWPSSSRIRPVM*TV WNGTCGLPFSSLMKCMVIMIM RAIQKKMMSKPDITLVGWN
25458	55826	A	25599	442	1368	RRTMAAFACGVVRDASEVIRPS STLVPLVGEKHAKGLFGTIVDN FYLVALIFAMGTSGLATPLVT ECMQWLFGIPHTLLGFI/LYNAI CVACGLQKGVRIASDVRSYLSF LMLGWVFIVSGASFIMNYFTD SVGMLLMYLPRMLFYTDPIAK GGFPQGWTVFYWAWWVIYAI QMSIFLARISRGRTVRELCWIL WTVLGSNTLLLDKNIINIPNLIE QYGVARAIJETWAALALNNGN MWGFFILWFIGPGLVNAWQNI RAQFVHHILRRNGIADGFRHLA ALTIHGKAVGQYLTIRRTLHR
25459	55827	A	25600	2468	3907	
25460	55828	A	25601	3	3738	YKTNYTDNSEYYANVGFNVKP VKRDGKMSVMSDPDTAIPFPF KPTPLSIDEKAYYREKIKRLLE RNAVMVAHYTDPETIQQLAEE TGGCISDSLAMARFGAKDPASN LLVAGGGTCRSVVINAVFSYVT NVWGWAFEWYMMVMLFGWF WLVFGPYAKKRLGNEPPEFSTA SWIFMMFASCTSAAVLFWGSIE IYYYISTPPFGLEPNSTGAKELG LAYSLEFWGPLPWATYSFLSV AFAYFFFVRKMEVIRPS
25461	55829	A	25602	1331	1456	
25462	55830	A	25603	549	588	
25463	55831	A	25604	19	1629	

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25464	55832	A	25605	1	1995	MVGVRFALGLMWLTILVAETIS ANSGIGYLAMNAREFLQTDVV VVAILLYALLGKLADVSAQLE RLWLRWNPAYHLKEATLSAEQ AARIREMTVITSSLMMSLTVDE SDLSVHLVGRKINKREWAGNA SAWHDTPAVARDLSHGLSFAE QVVSEAHSAIVILDSRGNIQRFN RLCEDYTGLKEHDVIGQSVFKL FMSRREAAASRRNNRVFFRSQN AYEVENVPDPGVEQADDIILRIT ATAICGSDLHLRYGKIPQVKHG DIFGHEFMGEVVETGKDVKNL QKGDVVIPFVIACGDCFFCRL QQYAACENTNAGKGAALNKK QIPAPAALFGYSHLYGGVPGGQ AEYVRVLKGMWGRLNDAQPG FRSSRPLRYGAGIMTLLNISGLS HHYAHGGFNGKHQHQAVALNN VSLTLKSGETVALLGRSGCGKS TLARLLVGLESPAQGNISWRGE PLAKLNRAQRKAFRRDIQMF QDSISTVNPQPNRLHIV/RFPLT RLNQYQPSFSTDLYHGTLKPAS LTMSGVVLLGRM/PRKTSQQV QWA\CIARTDKASMPVYSESL FVEPLERVLYVAVILTQIIRGLR DTEIETINPDIAVHFALCFHGLG SIPTKGAEKSPFLTIHKVRVKPD IPSPVSIMAPCRAHPTCEALFNN STALHSPWFCDL
25465	55833	A	25606	179	371	CVLQYTHWPACSTVA\HSRRW* NRRRLRLAVTKTGSLSFHRCA ARLAFSKKLRCRDALPASRS
25466	55834	A	25607	544	983	SVQNPRVNWIIHAALQRTGRGR RRHEQHGEDHFVNGAAGVHQ AANGLVNPPRHQVFGAHQAKG DGENHRQRGAPDGDQLRDGHF GEVILPLAEIGREEVGGERRHV AAVFDQ/S*AGPFPRPATRRPTR RVQRPSSEARTSCAVVGRW
25467	55835	B	25608	1	1746	
25468	55836	A	25609	1	858	
25469	55837	A	25610	98	288	LCRNNGEPLARSGAAMGALLD REHSRHPDLEG\GSQQQVCDS GGSVTAANTSGGQQVKAQLEL

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25470	55838	A	25611	1934	2812	RPQTYSDAQPGFRSSRPLRYGA GIMTLLNISGLSHHYAHGGFNG KHQHQAAGLNNVSLTLKSGETV ALLGRSGCGKSTLSRVLVGLES PAQGNISWRGEPLAKLNRAQR KAFRDQIMVFQDSISAVNPRK TVREILREPMRHLLSLKKSEQL ARASEMLKAVDLDDSVLDKRP PQLSGGQLQRVCLARALAVEP KLLILDEAVSNLDLVLQAGVIR LLKKLQQQFGTASLFITHDLRL VERFCQRMVMDNGQIVETQV VGEKLTFSDDAGRVLQNAVLP AFPVRRRTTEKV
25471	55839	A	25612	1	515	MLAVECRSLPFPPLVQPVRYTD VTVKDDYNPETEQYTLTISQRT PATPDQAEKQPLHIPFAIELYDN EGKVIPLQKGGHPVNSVLNVTO AEQTFVFDNVYFQVPALLCEF SAPVKLEYKWSDDQLTFLMRH ARNDFSRWDAAQSLA/ILHQA ERRASSARSAAVSAGACG
25472	55840	A	25613	1	1053	
25473	55841	A	25614	1	1521	
25474	55842	A	25615	430	1120	QTASTFLKRGKCASRQSKLCGN RRRKRQRRISSYCLLRGTACSP AHQPDAFHQKRGNAGRHYAEC VLQYSSCSTRYS\PGRTQLINLF EVADGKRLVDLPGYGYAEVPE EMKRKWQRALGEYLEKRQSLQ GLVVLMDIRHPLKDLDDQMIE WAVDSNIAVLVLLTKADKLAS GARKAQLNMVREAVLAFNGD VQVETFSSLLKKQGVDKLRQKL DTWFSEMOPVEETQDGE
25475	55843	A	25616	407	1176	AYSTSLRVKICRKTSTLLRSRV TQIRSNTKSTKRAAHCSLTASC PPRCSIHATTVTSTTPCLWRRJA TMLRALARLLLRICFSGRTLKIA CLLLLAVAGATILIADR/AALYHA GKVKWLLVSGDNGRKNYDEA SGMQQALIAKGVPAKVIFCDY AGFSTLDSVVRAKKVFGENHIT IISQEFHNQRAIWLAQYGIDAI GFNAPDLNMKHGFYTQLREKL VIAKGHGSLTDLPAKAGTM WAIEIDDVARSRSHL
25476	55844	A	25617	3	168	NPFYSAMR\KSAGIRHILARHVE GASHMAEGYTRATAGNIGVCL GTSGRCCFRLCW
25477	55845	B	25618	169	1227	

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25478	55846	A	25619	489	740	AIARSCADYHPANFRHHRAAA RAGDDYLSRRAERQPGAKAGG SRLRAGKRPCSAFRYW*CAAG E*SVGEKIMAGDVISPKRRL
25479	55847	A	25620	146	475	
25480	55848	B	25621	38	191	
25481	55849	A	25622	662	4568	
25482	55850	A	25623	20	2661	AGHIHRPRYQHGVGTESTSIMS VASRSAERVFLTKFESWKNFPI NRGRNKMAMRAVDAAMYV LKKEGIVTPAFG\VPGAA\INPFY SPMRKHG\GIRHILARHVEGAS HMAEGYTRATAGNIGVCLGTS GPAGTDMITALYSASADSIPILC ITGQAPRARLHKEDFQAVDIEAI AKPVSKMAVTVREAAALVPRVL QQAFLMRSRPGPVLVDLPF DVQVAIEFDPDMEPLPVYKP AASRMQIEKAVEMLIQAERPVI VAGGGVINADAAALLQQFAEL TSVPVIPTLMGWGCIPTDHELM AGMVGLQTGHRYEKEYTEGRKI VHIDIEPTQIGRVLCPLDGI VSD AKAALTLLVEVAQEMQKAGRL PCRKEWVADCQQRKRTLLRKT HFDNVPVKPQRVYEEMNKAFG RDVCYVTTIGLSQIAAAQMLHV FKDRHWINCGQAGPLGWTIPA ALGVCAADPKRNVVAISGDFD FQFLIEELAVGAQFNIPYIHVLV NRPAANGAQGSCHPDAPAVFR SSIFIRKSEEKLVVTMNELSASR ALPEETMPGRFELKPTLEKVLH APDNFLFMDPLPPMHRGIIIAA IVLAVGFLLPSSDTPNAPVVTR EAQLDIQSQSQPPTEEQLRAQL VTPQNDPDQNLRYKASQKSSR KLPKRDLPHILTPFRAPMASVC AKRKGQVLHQQYSLKKYRYK
25483	55851	A	25624	1	570	
25484	55852	A	25625	312	873	APRSRVQAKIAASNTGELNALQ QLGFS\LVEGEVDLAL\PVNNA\ SDSGAVVA\QETDIPA*RQLASA AFAQSRFRAPWYAPDASSRFYA QWIENAVRGTFDHQCLILRAAS GDIRGYVSLRELNATDARIGLL AGRGAGAELMQTALNWAYAR GKTTLRVATQMGNTAALKRYI QSGANVESTAYWLYR

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25485	55853	A	25626	2	922	FSPPGGLHDAGEAVFWRVNKSA NYGVLDKLGARYADLSKAESQ WDEMMRTAGSLKLGTHASINS LFENITAAPADPILGLADLFRAD ERPGKINLGIGENPSCCRTSSSP VFDAAIWPAPVNNASDSGAVV AQETDIPALRQLASAAFAQSRF RAPWYAPDASSRFYAQWIENA VRGTFDHQCLILRAASGDIRGY VSLRELNATDARIGLLAGRGAG AELMQTALNWAYARGDHMI/R I*RTAGGGNRTRLAYVGN* RQTVWRWRFYPSLPAVAGATFWQ RQSVTDVLRHFAAGDGGAAAR YPAWR
25486	55854	A	25627	911	1441	AIPSISCFLLAIKALILSAIWLNA TPSRSKLEPSSKWIRSLRCPSPN RCAAASSFNISCQWFLSEYGP NQVASGKTSFVIVFKQPRYRA VTKPNCRLMMRNGCSTLARML PVMYAMLMPVFLRGCCFKVL TLPGRSAISQSTSTSASSRCGA PW*PASAETNCSSPCSRPLS
25487	55855	A	25628	1	1247	MERVLDNLLNNALRYCHSTVE TSLLLSGNRATLIVEDDGP GIAPENREHIFEPFVRLDPSRDRSTGG CGLGLAIVHSIALAMGVNAQA DFMKLTGADEQIAAYCFKMPF VFHLIEEVSRLFYALCLINIDH KAALNITQRTAANILLDGQMQ HAVDQAFRTARTAROGSTFVQY ARLARKLATANICWSYFVPVR ASIEPLTWENAFFGVNSAIVRIT SEAPLLTPDALAPWSRVQAKIA ASNTGELDALQQLGFSLVEGEV DLALPVNNASDSGAVVAQETD IPALRQLASAAFAQSRFRAPWY APDASSRFYAQWIENAVRGTFD HQCLILRAASGDIRGYVSLREL NATDARIGLLAGRGAGAEMLQ TALNWAYARGKTTLRVATQM GYTAALKRYIQSGANVESTAY WLYR
25488	55856	A	25629	1	1925	
25489	55857	A	25630	402	664	TARRLLFFRD/RTARVAVPNAA VVLFPFLPVKTMIIIPRSLGRRRS GGICRPLGYLVAMDAIDGLQN ADNSNGESRIATSSFRSRSARR

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25490	55858	A	25631	920	1237	IARPGCHLSHCHSEPSGRLSK*P FSCNSLKTGDF*PI*GLIQTQIFS PFAFRRIIPSGSGKVSGSHSKS HHWKAFIQKQSKWKTCSGRLR SAIPSIKLFTVASS
25491	55859	A	25632	1	1341	MVHRFGIRVRFVALGFYQDVIL PVRAHRHEWGHYVHLCASIQR QIDVSFARDATSHSSCPVTGVR FWGYPPFAANKVVIAGFELEGET MTRPGLICAEGLLVMIVSLRS ELYDSYHEFTRQRVTEIVEKAA NHLPAVVEMMTLHRCAINRHN FVRRVGPAGISTFFASSPDGVN AGFSTFRVVFTCQRSRPLQRHS HADVQTATLLLNTVNLEQKQA NAILSGLSDMIPNSSPESAPEIQL LQSRMILGKTIAELNLRDIVEQK YFPIVGRGWARLTKEKPGELAI SWMHIP*TLSKNRPTPFS/DGLS DMIPNSSPESAPEIQLLQSRMIL GKTIAELNLRDIVEQKYFPIVGR GWARLTKEKPGELAISWMHIP QLNGQDQQLTLTVGENGHYTL EGEFTVNGMVGQRLEKDGVA LTIADIKAKPGTQFVLSQRTELE AINALQETFTVSERSKESGMLE LTMTGDDPQLITRILNSIANNYL QQNIARQAAQDSQSLEFLQRQL PEVRSELDQRKKNSTFIASSAIR
25492	55860	A	25633	170	935	LTQEDTRINLIPMAVESLHLPTQ MLINGGETYAWRNWKRGGQY KSATLNTGQPHVRARELVDS TLASDAARLTCRHGLALPALFT LIAVVTSLLSPQFIRQILWSRLT KTR*AGDQLDAYSTTEWSGSA TDTHGWGKRPLYTGR*RVHRQ WYGRPASGKRWRCADYRGH* GQTRNTVCPEPAYRTGSD
25493	55861	B	25634	42	755	

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25494	55862	A	25635	793	2127	RYCKGTVMDQIRLTHLRQLEA ESIHIREVAAEYSNPVMLYSIG KDSSVMLHLARKAYYPGTLPPF LLHVDGTGWKFREMYEFRDRTA KAYGCELLVHKNPEGVAMGIN PFVHGSAKHTDIMKTEGLKQA LNK/YTTSSRAKERIYSFRDRFHR WDPKNQRPELWHNYNGQINK GESIRVFPLSNWTEQDIWQYIW LENIDIVPLYLAAERPVLERDG MLMMIDDNRIDLQPGEVIKKR MVRFRTLGCWPLTGAVESNAQ TLPEIIEEMLVSTTSEQGRVID RDQAGSMELKKRQLIELIINVH NLLKNGFGFQVKVNRIALLAIN VEFFFRLVQLAAHFSSGTLAQD KLCSWFGLNVRDSQRNAIFFQT LADHTIDGELFTFQCIVA VFPNL PIYSYATIYVSSSSIPISEESPSIR FACSQTSRQPPVSDSRFCVSQV
25495	55863	A	25636	360	566	GAETMGDLLWVVGILLMCSLS TLVLVWLDPRLS*RT*A*CGA LTSHQAINNGRNEKRKPIRESDP LKA
25496	55864	A	25637	1	312	LLRKSVSVIKGTIKTIIGFMLLQ AGSGILTSTFKPVVAKMSEVYG INGAISDTYVMQDG*APELGLS PGRFLRHDTDFVLQLGIVMVRL AGDGSLNINAQANN
25497	55865	A	25638	517	796	PTARFGWVKGVDLPAD/CNRQ DRFAIDVRVQGS*\WGCVLPLF RVLLFVSCALLVSVSCVLRLL FCCSS\LSLFLSGLGGGRSPKAG DVFRDRR
25498	55866	A	25639	47	411	AIKVRELSIKLKMC/YSLIKTLH G*KYRNFMVIGSMVFGKKAITH VAGVKRRTAVVVGFKVFDIQR SQFRIVVTGDLAQLLYRVIKVIT CGHFVRQHGIVLCAGVLHVGD RYQAHVKTLGGLI
25499	55867	A	25640	1	1488	
25500	55868	A	25641	2	298	CCICL/YSYAPIDVW/WG/WNTA GQVQAA*TLKAASSIVTIPLRN TFIFNYSLSGLRRRLIIRSRRHS THASNITLIAASTASRIGWFASA YHTRSNHGR
25501	55869	C	25642	1	2064	
25502	55870	B	25643	1	1116	

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25503	55871	A	25644	312	620	SACRCCLVVVPLFVCL/GSSLSL APTFLLASFSSSRASRVVAFGL GSLRAGSALCLPCA AVVLALRS AGTCLEWWWWHSVVLPPETK RLPSTSLIPYASVSI
25504	55872	A	25645	2	2237	
25505	55873	A	25646	692	6383	RMSRSDYDQYRSRNALIRRH EKMDASLHVGTKEFDISKVSEV DSVDDLLIDNAARYLLKDWKG VGELVNGVEVALEYTAERGIAL LKQNPELYWQILAEAAASIAQVG GEVWIAPKFERNGRLRLANSEI GAASQLQTYHRVDPGRPCKLD LSGGMSQRVMIAMAIACRPKL LIADEPTTALDVTIQAQIHELLLE LQQKENMALVLITHDLALVAE AAHKIIVMYAGQVVETGDAHA IFHAPRHPYTQALLRA
25506	55874	A	25647	856	1467	
25507	55875	A	25648	1823	2014	SQEIALMQFRPRLTGASGSP*RP PHRTLRLSDQNAATIPQKRASA LIPLMRILPVRYGHELLC
25508	55876	A	25649	1	218	
25509	55877	A	25650	2740	3293	IFAVNLILQCHVGGTHHQRFLL FAGNGDAGNQIRERFPNAGG/E LQSPDVALLRPAFWRRPQSSA AAAHGE*SRGSVPEAPYTRRQF ALPAPPIKCAPLPERQRPVPSR HLRLPACPGYKNRASSAKPSYS FLAQRQHLQRLSPLPQNQNLQP RRRDQRQRAGAMSARVPDLISS SRSMRRTS
25510	55878	B	25651	1	1875	
25511	55879	B	25652	1	2981	

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25512	55880	A	25653	1	1649	MTFRNCVAVDLGASSGRVMLA RYERECRSLTLREIHRFNGLH SQNGYVTWDVDSLESAILRLGL NKVCEEGRIDSIGIDTWGVDFV LLDQQGQRVGLPVAYRDSRTN GLMAQAQQQLGKRDIYQRSGL QFLPFNTLYQLRALTEQQPELIP HIAHALLMPDYFSYRLTGKMN WEYTNATTTQLVNINSDDWDE SLLAWSGGQQLVWVAEASGE WGVLACTIONFAWNRNYFVLLFV GVFLSSFGSTANPQMFALAREH ADKTGREAVMFSSFLRAQVSL AWVIGPPLAYALAMGFSFTVM YLSAAVAFIVCGVMVWFLPS MRKELPLATGTIEAPRRNRRT LLLFVICTLMWGSNSLYINMPL FIINELHLPEKLAGVMMGTAAG LEIPTMLIAGYFRQTSIPTAYGR SVGRIRRSRRIRQSCYYQRIFSL LACELANALERPENFCGMHFFN PVHRMPLVEIRGEKSSDETIK VVAWASKMGKTPIVVNDPCGF FVNRVLFPYFAGFSQLLR/ERRG FPQDRQSDGKTVWLADGPGIS AGRCGH
25513	55881	A	25654	1590	2855	RNLLGEAADPVSGPHSAIYRPD WPKSGDCACQGPICKSANRPA VVPVHVGPAEDLEVFLNVFGE LPQPLIDTQILAAFCGRPMSWG FASMVEEYSGVTLDKSESRTD WLARPLPERQWEYASPNVWY LLPITAKLMVETEASGWLPAAL DECRLMQMRRQEVVAPEDAW RDITNAWQLRTRQLACLQLLA DWRLRKARERDLAVNFVREE HLWSVARYMPGSLGELDSLGL SGSEIRFHGKTLALVEKAQTL PEDALPQPMNLMDMPGYRKA FKAIKSLITDVSETHKISAELLAS RRQINQLLNWHWKLKPQNNLP ELISGWRGISAVKSSEAGLGAL SATSGFGKLQIQHQAFTLRTRT TDQHTLLAGTLFIKILIPMVSF TFQYCCFAVPQATYCHRIAPIL GNGAMKPGRKIS

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25514	55882	A	25655	1	3315	MDELRLVLMTHIHLPPIRRAD GSFGNDLTTGAGFNDRKTVPR YARVHVYRCRKVICFTKRIPFC LDVPAHRALVVMKGTLYGMP VVAAAFEFAMGGSMSGVVG RFVRAVEQALEDNCPLICFSAS GGARMQEALMSLMQMAKTS ALAKMQERGLPYISVLTDP TMGGVSASFAMLGDLNIAEPK ALIGFAGPRVIEQTVREKLPP GFQRFSEFLIEKGAIDMIVRR PEMRLKLASILAKLMNLPAPN PEA
25515	55883	A	25656	246	422	RHADTDLRR*ISDRFSPAPPADP ANGGR*TPRHAARKRRDPGTPV QPARKPSKPTRLR
25516	55884	A	25657	884	1276	LVTRQLSPGNRCNVFASSAVE TSLTCQGWLSPVCAVCQAIS SSHNASIQVRSPAASCGSPFC SKRPSALWWTSPFLSPRRRTS GANAESVSAT*SKRRSSARRS ASARSTLSGAALRSRTASNE WRS
25517	55885	A	25658	649	1427	LPLLGWSMSPRMTAQLACDAL QMALWRRKRPRNVIVHTDRGG QSVQQFRALKRHITASRETERF YLDVQKQFPKVTAQKVIVSEA GASVYSASELAAQEPDLDVSL RGAVSIARRLQDPLAELVKIDP KSGVGVQYQHDVSTQLARKL DAVVEDCVNAVGVDLNTASVP LLTRVAGLTRMMAQNIVAWR DENGQFQNRQQLKVSRLGPK AFEQCAGFLRNHGDNPLDAST VHPEAYPVVERILAATQQALKD LMGNSSELRLNKASFLDNEEN WPLLLDALIPVANTCEMILMPA CFGLADDKLWRWLNEKLPCSL MLLPTLPPSVLGIRLQNQLQRQ FVRQGGVWIECGDGGDTTITI TQR**PAGRVYRSPGSLSGGGT HSGSNTAGTERS
25518	55886	A	25659	1	1878	
25519	55887	A	25660	1	4329	

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25520	55888	A	25661	2514	4173	PTSCLPDDYVGHCRGVSAAHF AGSVSCVRLLSACARPLWRHL GLALLRVWCRTFLLLSALASVF CPCSVMWGRLLFSASLSVVVW GGVFLSPLGSLSPRG TARLGAA CRSRED/RRR*WRGIFNRDTFAS AVPASVNPDKPCAPAAACIRFTS TSAY*VGCSDRNA/DAEASGEG WRRFGDATLSTGQFGGEAREE VILGLIGSQA\KTGGNTPKASAV RKITLVAWPALETGLTMLSMM** IG*ETRVFSVFEPSSKSIVPSSRT VTFSSNASRRIAL*ISGSASFDSL IVFA*QPPSKLNTPPSSQPCSSSP IRRRFGSVERVVLPVPERPKNT ATSPFSPTLAEQCIEAIPSAVFA APVRVAASMIISGFCALASIRPS ASTRRPSASVFITSTFLPLR*VMI SPSLNALPLIRLSAQQRNSFTRL FSPRVMANASAPVTVAAPPMS DFIESINAVCLMQARVHWRFFI ASWVVIQPPAIPENVLNRVRLC AAPGTLCLTTFVSSSGDR*NAL CNRCNRPAPCFRSSAIRFATVLA ARRHDWVWPISPLIPRSS

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25521	55889	A	25662	2221	4400	RGCVVSGKSSCSKTNLPSSDDKR TGASCPLRDLFLRYLRAHALVT AEQLAHEFSLGIAIVEEQLQQLR EQGLVMNLQQDIWVSDEVFRR LRLRSLQAAREATRPVAATTYA RLLERQGVLPATDGSPALFAS TSPGVYEGVDGVMRVIEQLAA SAINASLWESQEFVYGKPVYAV GENYSQQQYYLASFANKIWLSP QGVVDLHGFATNGLYYKSLLD KLKVSTHVFVRVGTYSKSAVEPFI RDDMSPAAREADSRWIGELWQ NYLNTVAANRQIPAEQVFPGA QGLLEGLTKTGGDTAKYALEN KLVDALASSAEIEKALTKEFGW SKTDKNYRAISYYDYALKTPA DTGDSIGVVFANGAIMDGEETQ GNVGGDTTAAQIRDARLDPKV KAIVLRVNSPGGSVTASEVIRA ELAAARAAGKPVVSMGGMA ASGGYWISTPANYIVANPSTLT GSIGIFGVITTVENSLDSIGVHTD GVSTSPLADV SITRALPPEAQL MMQLSIENGYKRFITLVADARH STPEQ/IDKIAQGHVWT/GLGDF DDAVAKAAELAKVKQWHLEY YVDEPTFFDKVMDNMSGSVRA MLPDAFQAMLPAPLASYQVRS PCLTYILLFFRYHSYQYHAKIEN LRCLHGRDHRDAAFRAGLYTG VRSSTTPTGADAGIPSPGDARF AIHEYIPRNGSSRFNPGKLAPHA
25522	55890	A	25663	1	1665	
25523	55891	A	25664	475	1182	
25524	55892	A	25665	242	3059	
25525	55893	A	25666	1761	1970	
25526	55894	A	25667	455	1137	GTKPRDIDHILGTFITPGMPKGG KLDVYAAPELPLKLLGRPTEGE YNEEF/SLLPVVNYLKDKLSNP V/RLDGVDAEGEL/VVLENVR FNKGEKKDDE/HRAQASTHGIG K/FADVACAGPLLA/AVLDSLK /IADQLIVGGGIANTFI/AAQGH VGKSLYEADLV/DEAKRLTTC NIPVPSD/VRVATEFSETAPATL KSVRHSDKISYISTGGGAFLEL WKVKYLPVAVAMLEERG
25527	55895	A	25668	1108	1932	
25528	55896	A	25669	1496	1631	
25529	55897	A	25670	462	1152	
25530	55898	A	25671	545	598	

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25531	55899	A	25672	1	1761	MRGHNWIDMDQARQQSTPHT DRKICHKNDPRRTTPLRKIDAH PHTLIILPAESTLSTTKYKLRL LVENTNKDKSAVSVVFRGSVL HQQAAANFPNLMCLFQLKNGVN ACNDFIMLFVDDNAAGSIERAA SPCINEKQHAFSESVPAIAAVRG LGSMIAVEFNDPQTGEPSAAIA QKIQQRALAQGLLLTTCGAYG NACKRRIDYVCRIKHSRRIRQV VLLNFAKSGAFSTTRGTDDKLT PVIQPRASGEYNEEFSLLPVVN YLKDKLSNPVRLVKDYLDGVD VAEGELVLENVRFNKGEKKD DETLSKKYAALCDVFVMDAFG TAHLRAGFLLTGIGKLRCSLRC AGPLLAELDALGKALKEPARP MVAIVGGSKVSTKLTVLDSLK IADQLIVGGGIANTFIAAQGHD VGKSLYEADLVDEAKRLLTTC NIPVPSDVRVATEFSETAPANL KSVNDVKADEQILDIVRDLDA NVVINA VFSYVTNVWGWA FEE WYMVVMLFGWFWLVFGPYAK KRLGNPEPFSTASWIFMMFAL LYVCCRTVRLGREIHRRAQIVH IDIEPTQIGRVLCRISVLSMLKR
25532	55900	A	25673	1	984	
25533	55901	A	25674	1	1181	MMAVSAPYVGDNIDDGGIYTQ SEHTISSDCVLDTAAMWTPLS AVIGCTTNPAQYPANAAEVYN KDGKLDLYGKVDGLHYFSDN KDVDGDQTYMRLGFKGETQVT DQLTGYGQWEYQIQGNSAENE NNSWTRVAFAGLKFQDVGSFD YGRNYGVVYDVTSWTDVLPEF GGDTYGSDFNMQQRGNGFATY RNTDFFGLVDGLNFAVQYQGK NGNPSGESFTSGVTNNGRDALR QNGDGVGGSITYDYEGFGIGY TQTYNATRVGSLGWANKAQNF EAVAQYQFDFGLRPSLAYLQSK GKNLGRGYDDEDILQICCMSDP TQNRQASAKLALPCQVALLSSA SPHHAFTPSTSIQPAHIIHSSPP PWASSHSISTHQHTQCSSSSNT LAVH
25534	55902	A	25675	1	147	

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25535	55903	A	25676	683	947	QVRDSLQQGRERRIALSIGWL VWREGCQDQCELEAGGASALTR RGSCRELD PAPFATMLLFCPGC GNGLIVEDG VQRCHASTDAVPP
25536	55904	A	25677	12	393	RGSCRELEPAEFETMLLFCPGC GNGLIVEEGQRCH/RAVACNT CPYVHNITPQGNTIWKYPKLKE CGSDVLGGAAAWENVSTAE SCAPKCEHPRAYFMQLQTRSAD EPM TTFYKCCNAQCGHRWRD
25537	55905	A	25678	234	567	YVDETDDCFENNRCCGQPVNGA YSPAGLSRVAADASLTTPHAK* TLRSLTLHQHDKTRTELLNDVA GALALDDKLGRSTNQLSGGEW TPSLARPFLLLGP RKMRLPLH LPP
25538	55906	A	25679	1	794	HCDGKHFTGVGKIMSIGMQLQ DVAESTRLGPLSGEVRAGEILH LVGPNGAGKESLTGREWPEMP TVKGTIQFPGHPLEAWSAKKL ALLRAYLSQQQT PFP PVPWH YLT LHQPDKTRPELLNDVAGA LALDDKLGRSTNQLSGGEWQR VRLAAVVLQITPQANPAGQLLL LDEPMNSLDVAQQSALDKILSA LCQQGLAIVMSSHDNLNHLRH AHRAWLLKGGKMLASGRREE VLTPPNLAQAYGMNFRRLDIEG HRMLISTI
25539	55907	A	25680	12	414	RAAPSRNLPPRMPIPIAARIAAR PIITAAAMYSRSIFRFSMTVSSLF QLKRSSVGKLMFFRRHRQIDDR QNHEDGLQRNDQDVENGPRH IQDPL*PPRQETSNQNEQLSGV HVTEQSQT EGSWFGQHAYPF
25540	55908	A	25681	568	724	RFSLGTVLDGIYPHQYDGYSR WSAKRYL*WRNL*SGTHRSC* VNNFTRSNKK

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25541	55909	A	25682	1	974	MNGKLQSSDVKNETPYNIPLLI NENVISSGISLISLWHTYADEHY RVIWPRDKKKPLIANSWVAVY TVTGCGNSDRLNNIRTLRA\MA REFSIDVLDEMLQQFRVVTDPDR PEHKQLPQHELAERQEKISTWL ELMKADGINPEELLGN\SSAAA PRIAGKKRQPGSAKYLF\TDVN GETKTWTGQGRTPKPIAQALAE DCHGKPEYGSVAHGCRCDDGS AGNLCFDLNRHCGLGVREPR KINGDYRSRFFCHAGETGVCAG AETTQMAESGVSGAGLA VRGE RDGKRSPLQIAIMMNGSSGQAI SSNVIIQLFLVEVIKSLRMLYM
25542	55910	A	25683	1	1359	
25543	55911	A	25684	1	918	
25544	55912	A	25685	72	690	PAPVAGAHCPGLHRSSSEHQEP QLRHVARWPSS*SWLCHGTFR KLLPGKKRRGGNKKF*GRRAR GVGCVVSRVWCGPACACSLRR WLAHTVHWVFTEAQSIKSHSS DMWPDGLALSPGCAMGPSGSC SRGKNVGGATKNFRGVHNIYC HKPIPTTQHESKYARQTTTEEC TQTSSHDFTTFSAVMQRLQI ARNLVTHPKLVFMDPTGGGLD VSVQARLLDLLRGLVVELNLA VVIVTHDLGVARLLADRLLVM KQGQVVESGLTDRVLDDPHHP YTQLLVSSVLQN
25545	55913	A	25686	1334	1545	RSQSRLERSCSVTGSM*RVSPA RSFRJITKRVLAARLAT*LPAS GRRTGVGVSVDSFEPSELLSSSF TD
25546	55914	A	25687	1784	2125	WLQHIHPQLLRCPVLRAQNVW IRTLYDRH/RFVTRGTGLWIETG DF/DKVPDLRFFAGGDRSI/RG YKYKSIAPKYANGLDIGKSPAA GAISPCLTFVMSARRGGHRGQS ASGCRA
25547	55915	A	25688	931	1213	NLHPAPAKRRAPARPQSRLAHR QRGRMRGAPRPFRRQRIKLCY ARCTPTICPTKVKSRSNTVTSG* TWSRQRAKWWKSAKPPSAGL TSSARHP
25548	55916	A	25689	999	1243	VDPVPWLPALDITSTAPARQF RKRIIASLMPT/WGTSLRRYSVP PRRSGWKRWRFPPTGSTTCRPP FPAVCSSVCRLPATW

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25549	55917	A	25690	1225	2341	ARTFRLSNFEGGSTRARGVYWD PNSDLCPTLDFS YKMPLLKNPL EQYYLVQGGFKRTDLNDTESD STTLVASRYWDLSSGWQRAIN LRWSLDHFTQGEITNTTMLFYF GVMISRTRS RGGMLPTWGDSQ RYSIDYSNTAWGSDVDFS VFQA QNVWIRTLYDRHRFVTRGTLG WIETGDFDKVPPDLRFFAGGDR SIRGYQYK SIGPKLPNGDLKG ASKLITGSLEYQYNVTGKCTK WQFGEWLAPGEVRLAPGATLA TPELVASCSTEGLNGLAANFHA ELRARLPWHGGAMKPRPVHLN TWEGFYFDLQPKVKALATAA AALGVERFVLDGWFNARHH DRAGLGDWWPDATKFPQGLG ELVAHVNP FYA
25550	55918	A	25691	45	233	SSYPWWAAWWASTTARPSTR WRSSPR*SATTWASSPSPTSP*I HDRPGIGATHSSRFIPLK
25551	55919	B	25692	1	558	
25552	55920	A	25693	324	657	
25553	55921	A	25694	831	1244	WQPGGR*WSRQRSADGTGPDD LAAAYFPGDRFYRN*PSERC*H RRG
25554	55922	A	25695	1	1215	
25555	55923	A	25696	1	840	
25556	55924	A	25697	1	1365	MPQNRGGFLDKKNPGAPLEGA VYVNCFTFRPGIGYEGRTAVFC GAAKVPPGLNYRGIGAFPGGNF ASKRSRGRNLAGARCLRFCPK WQ\NYSETASVQQQN*SVLARA IERGINAPLA\SSCGRFFDAVPA ALGCAPATLSYKGEAACALEA LAASCHGVTHPVTMPRVNDNQL DLATFWQQWLNWQAPVNQRA WAFHDALAQGFAALMREQAT MRGITTLHPEGLERMSAGHES WLERRNGELGEGKGS KAYPTG DHKGADLYDDSNFLIQNIFVED TRGLLRQGREDLIER YKDPLNE NPKRCVEQLANWHKELEYKK ASRIDIKPSREYASTIMNAIWTG EPSVIYGNVRNDGLIDNLPQGC CVEVACLVDANGIQPTKVGTLP SHLAAMMQTNINVQTLLTEAIL TENRDRVYHAAMMDPHTAAV LGIDEIYALVDDLIAAHGDWLP

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25557	55925	A	25698	1	950	MPDEENRNFNALKAVFSQLMTD ATLTPLFNYHYRISAPPGVNGL SMKRAVVVFSGGQDSTTCLVQ ALQQYDEVHCVTFDYGQRHRA EIDVARELALKLGARAHKVLD VTLLNELAVSSLTRDSPVPDYE PEADGIPNTFVPGRNILFLTLAA IYAYQVKA EAVITGVCETDFSG YPDCRDEFVKALNHAHKEKLD EDCKRRMYTNPLRVLD SKNPE VQALLNDAPALGDYLD EESRE HFAGLCKLLESAGIAYTVNQRL AVNPEFKADPVVDIYLVASGA DTQSAAMALAERLRDELPGVK LMTNHGGGNFKKQFARADKW GARVAVVLGESEVANGTAVVK DLRSGEQTAVAQDSVA AHLRT KEKDSVEIYENENDQVEAVKRF FAENGKALAVGVILGVGALIG WRYWNSHQVDSARSASLAYQ NAVTA VSEGKPD SIPAAEKFAA ENKNTYGALASLELAQQFVDK NELEKAAAQLQQGLADTS DEN LKAVINLRLARVQVQLKQADA ALKTL*IPD*RPDAGLRCKRSPR SPAVCTDRQNAHEIPRPSHLM PERR*EAPALPDFLNPARAAG
25558	55926	A	25699	1	3314	MKISRLGEAPDYRFLANERTF LAWIRTALGFLAAGVGLDQLA PDFATPVIRELLALLCLFSGGL AMYGYLRWLRNEKAMRLKED LPYTNSLLIISLILMVVA VIVMG LRAMLMAMEPIWESDFHTLSY GFRPERSVHHAIRTVKLQLTDC GETRGRWVIEGDLSSYFDTVHH RLLMKAVRRRISDARFMTLLW KTIKAGHIDVEDKRAASEGVPQ NKIISPLLSNIMLNEFDQYLHER YLSGKARKDRWYWNN
25559	55927	A	25700	997	1716	PYLTA SSSAFQQLHLSGENHRD DGCAGYSRRTLAAQLQCHCEC DHNLPDTPRLPRSGVVLPA RF PRPLHTLISALHRRVLTRHARH ESSTLNPQRLPPAHRFFACQSR Y VPGPAEYSYAVRSTDESG*A*W LRVPPNLIALT VQRSLPDLALPA QNCPPCRSMLEPAPYILLGMLA TWPACPG\HEVG*SHSAHPDEP ETLQTVSR*YRRFGRPVH*SVH VVGRYPHQACQCYSSTAE
25560	55928	A	25701	1	769	

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25561	55929	A	25702	1	3707	MVRSVAVAGIAQAALPQSVVA WEYLVEDYDRIRNDIEAVLPEF ADYNQRIRHPGGFHLINAAAER RWMTPSGKANFITSKGLLEDPS SAFNSKLVMATVRSHDQYNTTI YGMDDRYRGVFGQRDGYRDN CEEIAQLAEDCGNLFAVTVFRC PAGANLQGNRNVHCIDDLGKD RFNDIRNVQAAELLAEMAISSA QRRMRAAKKVVRKKLTSGPAL PGKLADCTAQDLNRTELFLWK- GEQNALLRGFPAVRLHSL
25562	55930	A	25703	1	369	LPSHGAGLGTCSLPCLSLPPTP WAPVQPEPPRRAPPPAPWRPVP LTTQGLRN/DEHRVQDWQAAP PAAPLKVCKYTNQHPVFSTRFV NAPIDTLYLAALVRTWRTFMSS SRIVNTPIGTLYLAQ
25563	55931	A	25704	1	444	MRLHSSALGRSMGLGAVEQGA ALVGEAPAAQEPTAGEGSGM AGCSPKACPAGRQLRPGPA\AA PSAGPPSPRPPGTPAGPQAPRAA PVPARASPSTPPCKLRERAAAF A/EPRKGLPQCSGGLKGSSAA KVGAQAEAPRASESCDC
25564	55932	A	25705	1767	2130	YTGQRLRRVYVWPQQCQPTCA ALDFSPSLSCLPA/AAGLRTYSQ PCLSLPPTPWAPVQPEPPQ*APP PAPRRP\AHRPPKG*GVQAHGA G\RQAAPPAAPVRDPLG\KPAGL LSLVGTWRTFMS
25565	55933	A	25706	654	832	RRCARFLAGP*LPSHGAGLGTC SPPCLSLPPTPWAPVRPEPPRA PPPAPRRPVLCVFS
25566	55934	B	25707	1	537	
25567	55935	A	25708	1	455	HCGSVIGGFLVSLTLRTKLRTL AVSVTALTVCLEFIPSDVRMR SVSSFWWVRSLAGSRVKLQTF AVTVTALKAAASLELFVPPGGLV VSLASGVKLQTAAAGK/RCLPV LRHAPALLSPWVVDGTGHRGA GGGAHRGSGRPGAHHGGGRL
25568	55936	A	25709	1	314	SACREVWRERHEREPGLRGAL AGQLEFRVGVGLVRPALGGAG QPGAALDFSPGLSCLPA/AAGL GTCSPCLSLPPPPWAPVQPEPP RRAPPPVHGAQSHRPPKG

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25569	55937	A	25710	144	519	HPGQRLRRVYWVPQQCQPIGA ELDFSPSLSCLPA/AAGLGTCSP PCLSLPPPWPAPVQPEPPQRAPP PAPW/WLSPIDHPRAEECECTA QDWQAALPAAPVWDPLEMSG LFDRAEKRYIRSFARKDSM
25570	55938	A	25711	271	743	ARTWNVPKVCVRIKANSHSIFT GLSCLPAGQGSGPAARHA*ASD PLRGLLCGPSLLDE/PPPPAPWR PVPSTTQGLRSAGEQRGTGRQL HLSAAPVRDPRGEAIWAPESGR SAASILKPARPPAHREERTTPDA PP*EL*HSPRRSAASLREDPWLH S
25571	55939	A	25712	1043	1348	GPARNRAQRRRAGTAGGPITPS AAAGPGAKPLIARRRQGWPA PSAGPAKPTPTRISSWPAS\QPA AAVPARASPSTTLFKLREWAPA LASPERGSHSATVG
25572	55940	A	25713	22	226	NTRRWTEMTFDQVVRIFSIGNL QTVLQNRQPGGAIARCTGHIDP VTRFRPRAR*GSSHRNKAVDTQ RH
25573	55941	A	25714	166	714	
25574	55942	A	25715	1	462	

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25575	55943	A	25716	1	924	MFAIISYSSLA AVLTLTATLTAAG IISFPVALCLVIGANLGSGLLAM LNNSAANAAARRVALGSLLFK LVGSLIILPFVHLLAETMGKLSL PKAELVIYFHVFNLVRLVML PFVDPMARFCKTHIRDEPELDTQ LRPKHLDVDSALDTPTLALANAA RETCALATPWTDGRKYAYSA ASGGRRSATKVMVVVTDGESH DGSMLKAVIDQCNDNLRFGI AVLGYLNRNALDTKNLIKEIKA IASIPTEYFFNVSDEAALEKA GTLGEQIFSIEDMDLGDEVYTV GRPHPMIDPTLRNQLIADLGAK PQVRVLLLDVVIGFGATADPAA SLVSAWQKACAARLDNQPLYA IATVTGTERDPQCRSQIATLED AGIAVVSSLPEATLLAAALIHPL SPAAQQHTPSLLENVAVINIGLR SFALELQSASKPVVHYQWSPV AGQGKWLANPELLEADADA EY AAVIDIDLADIKEPILCAPNDPD DARPLSAVQGEKIDEVFIGSCM TNIGHFRAAGKLLDAHKGQLPT RLWVAPPTRMDAAQLTEEGYY SVFGKSGARVSSIPCAVPCVWA RVADGATVVSTSTRNFPNRLGT GANVFLASAELA AVALIGKLP TPEEYQTYVAQVDKTAVD TYR YLNFNQLSQYTEKADGLLKPRF RPWQRKILDTLATYHEQHRDEP GPGRERLRRMALPMEDEALVL
25576	55944	A	25717	1	417	MGVLNNWLSEESLWIQSRIHL RALRYYSNWRQYFAGYTFGRQ YWQSPEDDHLPLREFLARYER PMKNCWKILDIEETTDVDIIRRA YLALLPSFHPETDPQDFKQLRQ AYEEALRIAQSPAKSVWQPEEY EVAEHEILLAFRALLASDSERFL PSAWQRFIQQLNYCSMEEIDEL RWSLCTIAMNTAHLSEFECVLL AERLRWLQEENTGEIDEEELGS FLYAIAKGNVFNQFQILHLPVA RRPDICTQHNDQSRCEGYQILS DKRGHQHGGGITALYQCGNAD PRAKGERLFFDAPA *CASSARV CVLSLAGASKKSRSPFARGSAL PHWYRAVMPPPCW

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
25577	55945	A	25718	1680	2058	YRAYAPAFLLPLSPSCPPLWRHC GSGRGENRRRDSSAHGPYAPRR QPDMPAHRQS*SFV/PASCSAC MDEPHKRLTVTAGTECGTSASS AALRAILKPCSSVCSFFLLLLL PPPPSSSSSSFFFLF
25578	55946	A	25719	1115	3549	NPDRLLQLNLILETSK*QQMGD TRKKRS/NLTVAPIISPLKRYEQ HTELSRHINVNLGDRNRRQQL ILDQGKSSQRNIYLSHVAQKIPG RATYALSHSVDMITIQLGTLLR CAPPHRRRYAGRFFCRSAGNFL NVQGFDAVLVAVKHDLCLT IAPSLIVCTRLRSPWCGALRRCS TDGRSDLASSGVMFSIDTESAL TRWCLSLPHGALGKIIAEGLLS VIASKASAIVTTVAVVPVTRRSS LVNWHSGGSLWRCNRTERD QQASQGTTRMGRTQRNYSPT QAIHKTGSPTMATTSNTEQPPH EKPNTLTQHPRNPDRTHPKAT HNETQDTPQRDAKQNGEKTQ RKKNCLELND AEDQAERFQD RLMLKLQVTTKPCSMTRLRDC AGIWSAANRWSGIGIDRMIMLF TNSHTIATLFSSRRCAHRNKFH LMNEAVRRLLRSSFRKSVLRD ASFHDNQRVHSLQLLKERKSL IHGRICAAKASLFQTRRYRWQK APLFAQFRGRNRAVTHNRWV TTTTAIERTRARGLRPNSSGRGF HSSPAWQLRHRKCRRCARRYH TVYWKRRRSVARASTVVSGR TSRRGENRRRDSSAIAHMLHAA KQTCRLIAVMIIRAASCSACMD EPPSDLTVTAGTDAGLAPAGYA LNERRDLLHALTKSTALRTAHR GPNRTGWLNRIRVRFVMTALF
25579	55947	A	25720	606	1562	
25580	55948	A	25721	688	762	
25581	55949	A	25722	492	737	SLPSGATLPPALLLASAPDTA* WRCRER*YHLPAYAALSPAVA HRASLYSTLPSSVPWRRQCAGF RARRSPEQAWAYPAR

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25582	55950	A	25723	335	903	WVHDLPARKGSSARNIMLKSA PLRGHTRTRRKMNIIENVAT PDARVAITIRFNNFINDSLLEG AIDALKRIGQVKDENITVVWVP GAYELPLAAGALAKTGKYDAG IALGTGIRGGTAHFEYVAGGAS NGLAHVGQDSEIPVAFGVLTT ESI/EQAIERAGTKVGNKGAEA ALTALEMINVLKAICA
25583	55951	A	25724	3644	4545	SEAWPWRTAGTCLLCLNTT/AH VDKAIESRTVVADVLAKFENAL TGKLLTVSFQAHEAVIHGHPA PEENLQVLAALRLQYLQGDYT LHAAIPPLEEVYSLQRLKARISQ STKTFTPCERLEKRRTSFLEGL RRSFRTGSSVVRQKVVEEQMLD MWIKKEEVSSARASIIDKWRKFQ GMNQEQAAMAKYMALIKEWPG YGSTLFDVECKEGGFPQELWL GVSADAVSVYKRGEGRPLEVF QYEHILSFGAPLANTYKIVVDE RELLFETSEVVDVAKLMKAYIS MIVKKRYSTTRSASSQGSSR
25584	55952	A	25725	1	735	
25585	55953	A	25726	147	504	STCPASAPPRPSAGPRILSGSSAS GSPLGSSSASSPAVHKG*RFWL TG*CGP*VSAGNK\LFERWDGS VQSIPLQILESQGSKNLEVFFRG WMVAMDNRFFVGLKGDSQQLS GQRIFKLG
25586	55954	A	25727	1	639	
25587	55955	A	25728	1	1247	

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25588	55956	A	25729	1	2376	MAEVEEKKQIRFRKFTYRGVD LGQLLDMSFEQLRQLYGARQL RRLNHGLWRNAEAQAFAAE APMLGQEGGADHREAGSGEDA PAGYDHPSQDGGQGGRLQRQ DLQPGGDQAGDDRPRPGRVLH HLQAQRGKKPM/ISTVTFGQ*P DPPLRAGQRL*RC/RLLIYGRGK CWALSGNP/RSGKTTLLKSISAR LTPQQGEIHYENRSLYAMSEAD RRRLLRTEWGVVHQHPDGLR RQVSAGGNIGERLMATGARHY GDIRATAQKWLEEVEIPANRID DLPTTFLRATHTVKMFSGYSS PGQLDPETNINIGTSYLQYVY QQFGNNRIFSSAAYNAGPGRVA TAIVLTLYIIYMGFFATSGELT YEVWIGFFASAFTKVFTLLALF SILIHAWIGMWQVLT DYVKPLA LRLMLQLVIVVALVYVYIGFV VWGMRAALQISQSGQTCALL SKVFPTRSHTVSAQGGITVALG NTHEDNWEWHMYDTVKGSDY IDAGRKRQEEGDWNSGVGDPS DAGDRKHQLKAAQLRPEAIKQ RRIANRLKRRTQFPRHLKGFVN TLKPIHGGCSVGTKCPQMASLP EGLHHPVKLVFLGKPGCLLTDR PLKGPNTAKPVAVDLNASATAI TSYSLYGGSMILLFLASTLYHAI PHQRAKMWLKKFDHCAIYLLI AGTYTPFLLVGLDSPARGLMI
25589	55957	A	25730	219	652	SASWREAICLSRCRLPRSATAR GAGRGGCGLADRRASRQGKNL EAESAQEONGHQHRIHESQHPC QGGAPVSHHQAAVRLRESQIQ GAAEK*PTGDVIHPGQPVSGG /LK*YPSIPTCLLTTRTASLLKPP GVRTSVCWQQLPR
25590	55958	A	25731	1902	2100	RKFFSSSSGRS*PVRCSKL*SSID A*PLERIKRSRSYQVGSVGLCL RKSFHSTSAISAMPIGAPG
25591	55959	A	25732	3223	3669	

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25592	55960	A	25733	1	4325	MPEPPTHSMGSCAAGASLTSTA PCSTAPSPIDHLRAKECERTAQ DWQAAPPAALVRDPLAALVRT WRTFMSSSRIVNTPIGTLCLAQ GFQWFSVLSQVHASTDQEIQE MHDEQANPQNAVGTLDVGLID SVCASDSPDRPNSFVIITANRVL HCNADTPEEMHHWITLLQRSK GDTRVEGQEFIVRGWLHKEVK NSPKMSSLKLLKRWFLTHIPG LLQEFREDALNWGPDEKIFKET ELVNDMDKINGRIERAE
25593	55961	A	25734	501	2871	TGCCCLRKTDCRRRESARGVH AVYRRICARSMILLYRESVRPKA VTARVAVEAGIADYWKYVG LNGAIVGMTTFGESAPAELLFE EFGFTVDNPLASRAVRLRLPFN NDQVEAAVGWKLAVRHNGP TALILSRQNLAQVERTPDQVKE IARGGYVLKDSGGKPDILITATG SEMEITLQAAEKLAGEGRNVR VVSPLSTDIFDAQDEEYRESVLP SNVAARVAVEAGIADYWKY VGLKGAIVGMTGYGESAPADK LFPFFGFTAENIVAKAHKVLGV KAGSHIPRKKYDVP GKKSFSVP KYSTIGSPSPERPVSITTIPNSFVI ITANRVLHCNADTPEEMHHWIT LLQRSKGDTRVEGQEFIVVEKL IRGLAMEDSRNMFALFEYNH VDKAIESRTVVADVLAKFEKEP VGKHLPTYDGGQIAMGLESTAS VTRKHSSPSSLQNALSCETATSL IERRVRMALGTGDRRGLNTWL ARLPMEAKEKDEWRYWQADL LLERGREA EAKEILHQLMQQR GFYPMVAAQRIGEEYELKIDKA PQNVDSALTQGP EMARVRELM YWNLDNTARSEWANLLKNKS KPDRAHLPGYASTTQWWILSV QATVAGNLGDHLKERFPLANN DLSKRYTSGKKIPQSYAMAIAR QKSAWNPVKVSPVGASGLMQI MPGTATHTVKMFSIPGYSSPGQ
25594	55962	A	25735	1	1195	

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25595	55963	A	25736	1931	2676	FCGNTHQTYLGWVGGVANSEA *GEKWGTPDLVG/AERTETIQR LLGVCPEQGEKIIYIDGKQVDI RNCQQAIAQGIAMVPEDRKRD GIVPMAVVGKNITLAALNKFTG GISQLDDAAEQKCILESIQQLKV KTSSPDLAIGRLSGGNQQKAIL ARCLLLNPRILILDEPTRGIDIGA KYEIYKLINQLVQQGIAVIVISS ELPEVLGLSDRVLVMHEGKLLK ANLINHNLTQEQVMEAAALRSE HHVEKQSV
25596	55964	A	25737	1491	1667	TNGQWRAFYC*MRSGRNIRRR GEDISGGAGVSPRESPE*REVPE MGPGGAANRGTKRV
25597	55965	A	25738	419	823	VTLVAITRPIHVNRLRQYLVAIS LNETFGPSCKPSRSPCSSLSTCC WNAGVMHKK*VQGGRLCSYR N*SICLVVISPVVMGKRCIS*RC TAVLAALTVTVP SGVVAHVS MLPRLPMKRSSIVPLPSNWRTS
25598	55966	A	25739	591	968	VKQCKQADEH*EQSLIPLERRR TTPLSVPQL/GKALTTSFSCASG GTSVNSLSHTS*ECMASAVAVK FTFPNLAVNFCTAAMAGPKVA LTSTLARIQAGSLARTGGRAYR WSRSTMLAKSFWCLMAL
25599	55967	A	25740	764	1005	QARPRAPRRAPYPILIRSSIITLIY /DGQRLGHLDDGTD SWNHVPT LNGQCTLVLIHEYVDTRGPEIK TILVISWWNILVFH
25600	55968	A	25741	463	786	
25601	55969	A	25742	3	646	
25602	55970	A	25743	1	3008	MTMLQIVGALILLIAGFAILRLL FRALISTASALAGLILLCLFGPA LLAGYITERITRLFHIRWLAGVF LTIAGMIISFMWGLDGKHIALE AHTFDSVKFILTALAGLLAV PLQIKNIQQNGITPEDISKEINGY YCCFYTAFFLMACSDQRRLRG AMDKRYKFILVGFGEVVFVNLE SLDSGKKIHLLRRSHEEVMGSV MRTGTIDKGILPFIHTRGNEIL FIPALFILFSLGGAVFGMGEEAV AFAlIA

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25603	55971	A	25744	2	3494	TITNLRPAAPGICEMAQGLSAG GEYTGASIFVAEYSPDRRRGFM GSWLDLRSIAEIELGAGGVGLIS TIVGEANFLDWGWRIPFFIALPL GIIGLYLRHALEDTPAFQQHVD KLEQGDREGLQDGPVSLKEIA TKYWRSL LTCIGLVIATNVTYY MLLTYPMSYLSHNLHYSEDHG ALIIIAIMIGMLFVQPVMGLLSD RFGRRPFVLLGSVALFVLAIPAF ILINSNVI GLNLLPAMFPTHIRYS ALLEMKN
25604	55972	A	25745	1	277	
25605	55973	A	25746	902	1006	
25606	55974	A	25747	2	1265	
25607	55975	A	25748	409	525	
25608	55976	A	25749	91	431	NHKPGNIDVARRIQRGFAGDQI GHLRPVERQCSPDKRRFIAADG REIRGKQRAGHIFQLLSRCLLQI LNHCQRRAAHFRFQLSNQRHQ QLLPV/HYHAAEREYPAGACLV RWLL
25609	55977	A	25750	3	71	
25610	55978	A	25751	1	1212	
25611	55979	A	25752	1	2786	MAAVIEQIRRAVLALVTGVVHP GDIPVVWDIVWNATAAFIAVIII SLLDES GFFEWAAHLVLRWG YGPGRLPFNIRIGLIRTRIRQR LLFGLVTFILLNRSQNPAQDIQ LLAFRARTGKQTAQFIHHLPRM VFTDKTGSSNGLAPQGQCSAQ GELILNEKLAKQLVTAANWVK MQSDEGEINPVDILRWPGVMA AQEQDLDAIAAEILAALDGTLD DFIVARETEGQSGLKRVYHSPG APDIREFTRDAIP
25612	55980	A	25753	5	402	EIFS VVWIIMTRGDVVTISRWR VSSSPLETWNKRWAKISPAPFS LLPISRLEKSEGDL PETVISAF NMPSSLSLISSL*FKVRDV*HFF /RI*TLRGHYRVINWPNFNIVVS QGIGKRLANSWL VFTLFHRI
25613	55981	A	25754	48	219	PETCGHLWAYVWPSCAAV\GL YFKVHVLG*RSVTPVTDIVKLL EFTRLRLPGYTKSIE
25614	55982	A	25755	1	912	

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25615	55983	A	25756	1	1857	MRVCARACVRTRTRMCVYAH TCVVCVRTYAYVRVRVRVHVRA RVRVCAYARTRVRNSLSILPFIQ LTLATPIHHIHQEEFNIRGIVPVL RRVKPDLAIGIDITPSCDTPDLH DYSEVRINQGVGITCLNYHGRG TLAGLITPPRLIRMLEQTALEHN IPVQREVAPGVITETGYIQLFLP GWEIGFSPLALLLAFLCSTSPGF GDPDGLGVIAAYQDTRVPAAT AISELNALAVKGVILTGDNPRA AAAIAGELGLEFKAGLLPEDKV KAVTELNQHAPLAMVGDGIND APAMKAAAIGIAMGSGTDVAL ETADAALTHNHLRGLVQMIEL ARATHANIRQNITIALGLKGIFL VTTLDDRVRVAGSAGRYGGDGA GDSECVKIVAEIRQTDRNIE DRSPRPSGERVRVRGKGGIEAN QPLSTAFTNQITIRQSIRLFSNQF VFHKGISRVVAGSSAIIISNVSPG CILRTPNCRGFPISCTGEGKAA YGWQRDGGHAEYLLAEKDLI LLPDALSYEDGAFISCGVGTAY EGILRGEVSGSDNVLVVGLGPV GMMAMMLAKGRGAKRIIGVD MLPERLAMAKQLGVMDHGY*I LPDVY/V*IGVARVSWMNGRID SELRTRVRAYAHTRTRARTCTR TRTRTYAYVRTHTHVCAATHM RVRVRTHARAHTR
25616	55984	A	25757	3	1180	SKLGTRRSVVWA*SPSTSPTLW CSTFSAAGHSSMKRMNEFVDL LPAQQRMKGENWYRGTA TQNLDIIRRYKAEYVVILAGDHI YKQDYSRMLIDHVEKGARCTV ACMPVPIEEASAFGVMAVDEN DKIIEFVEKPANPPSMPNDPSKS LASMGIVFDADYLYELLEEDD RDENSSHDFGKDLIPKITEAGLA YAHFPPLSCVQSDPAEPYLAR CGYAGNFMESPRSGLIRVSCM PAGPPLPLPAARSEAPKAAGTV ASVPSIAPARLRVPDPVELVLV AAEFITPGDPTPRLHGSGFIDIR QIHHQTRSHLEGVKTGIRFLNH FSGNPQGGIAHVNGVARFQVK QCHQAWGQYAAARLRFQARGI SLQIAIHRVDIIHRFDVRQL
25617	55985	A	25758	16	543	
25618	55986	A	25759	1	3387	

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25619	55987	A	25760	1688	2234	LSVGKTFPVLVPAAFRKVSATG AAVPGTPSILALPSYSTTFFGVC TSASMNVPLTLRIRTRVTGEV AAIKPFSMANAPTPDSILPQLGV VSTRCS*TITCANR*STSARGSL ERLIMATLL/WVAGTFD*SVWF GHDTDVVTLYRFHEALCYSVT LRTPHRRVLRFKSQHPGELACFI SPVA
25620	55988	A	25761	905	4762	PPHNWMPSNATPGIAFVWCAY GAI/LPGDAPVPVDDYRKVVR KDTKGLIARWKYFWMSVIALG VAFALYLAGKDTPATQLVVPFF KDVMPLQLGLFYILLAYFVIVGT GNAVNLTDGLDGLAIMPTVFV AGGFALVAWATGNMNFASYL HIPYLRHAGELVIVCTAIVGAG LGFLWFNTYPAQVFMGDVGS ALGGALGHIAVLLRQEFLLVIM GGVFVVTLSVILQVGSFKLRG QRIFRMAPIHHHYELKGWP
25621	55989	A	25762	1	1448	MCHVLLAGRQRRTAGPEHALT PPEGCSAAIGPAVYKWAHATG VMIPDRPRSPHAGAEERHWHH PQPELISQRLGSFSSGPTKYIHEF QYLTLNLTWSDNLNLTILFIP LDEWVVFSLAQSHDNCRLH KPDQLQEGIREVPQEDPQWNYQ ENSPGIARRDYMISCLVEGLKK AAYKAINYDKLKETTQGTDKN PAQSMACLAATMRHFAALDPE ALAPHRDVNHGIKLTCKTIRSSI DISREIRAPRECRSTEMASWHPP ADLTECPVESGYSVLSGRTDCQ YSHTVRRACLTIDSRPAVRQL LKIREVQLLSLLRGCVSRRSRGS INAQYCRCLERVVTLPPFDSGPS LMNHAPHLYFAWQQLVEKSQL MLRLATEEQWDELIASEMAYV NAVQEIAHLTEEVDPTTMQEQ LRPMLRLILDNESKVKQVLQIR Q\DGLAKLVEQLRHLSKKHHL TDSTSSSLPGVRTPYSPIRGEE

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25622	55990	A	25763	1029	1665	RPESISSVASKTRLGRSFHGAAR RTREYHSSTCNASIAAAATVAA AQGHPTTSTPPASVDTTATNT QTPAVTAPAPAVDPQNAVVS PSQANVDTAATPAPTAATTPDG AAPLPTDQAGVTTTPVADPNAL VMNFTADCWLEVTDATGKKLF SGMQRKDGNNLTGQAPYKLK IGAPAAVQIQYQGKPVDLRFIR TNQVARLTLNAEQSPAQ
25623	55991	A	25764	658	1307	SNRLYTDVESINEIEGIYMKLRF ISSALAAALFAATGSYAAVVDG GTIHFEGELVNAACSVNTDSAD QVVTLGQYRTDIFNAVGNLSAL IPFTIQLNDCDPVVAANAFAF SGQADAINDLLAIASSTNTTT ATGVGIEILDNTSAILKPDGNSF STNQNLIPGTNVLHGLAFRRAR CVSTANLRVPRPICFDPGSSYQA NTIGSGRCADCQPD
25624	55992	A	25765	167	232	
25625	55993	A	25766	441	686	
25626	55994	A	25767	206	331	
25627	55995	A	25768	674	900	VVPICTMLEEALERQNLATSLC G*LKKACGRSWQTSPIKRSLNG AKFSRTSIIMGFITAEEKWSGWEI WSARNVTS
25628	55996	A	25769	41	222	
25629	55997	A	25770	17	525	ESLECSGPSWNASGTQSGFYCH RIAPILPEKRLARMVEKTWGLG LRRRTGFRRLGGLTGLVE CTSENSVKPSKSSFRKQRRGQRR EGH*SLRR*IRRERTERMQASR VTWNSFPQVPAKKPSSLSESG *P*ATNYTREQDSMWNCVHHY WQPPTSVSRLVHLNSG
25630	55998	A	25771	698	1051	PYLRIRLTALISRSSTVMRILFAI SKRPIT*PKRPKPTMTWGLSSL THGFSSSSGPLNWRDLSLSTSF ISNGVVIMESVTVTNNAIWSPS SSVAAVNTSRTPEAAIKRNTGR SK
25631	55999	A	25772	1	2204	

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25632	56000	A	25773	3	891	RYRNQDDHELQIHTGTRFYVEL CGFRVNPPWLATDVTHAAMAL LTLVTTGLHIVGEWGKHATPPV PYSICSNPPRRAA YITVWRNRP TLGDHLFSIAYPRGLRYDMGG GGEGTAWANVRQALARTTGR AQHWTKDNAKSSREARHPRQN KTKTHLGKPVLRWV/DPSFDQS KYDSIVWNPI/TYYVPKPKSTQV GQKV/LDKILNYTNTMKEAIA H/DTSKEGLQFYEVVPVALVVA GTQMATGLRTMDTRL YFEGELI DAAPNKPVIKVVRQGEEDWP SKGDAGDGEKVPSSLSESG
25633	56001	A	25774	1	285	
25634	56002	A	25775	1	302	SFSSFTQRTASVIISSTSTQSRLA TSPILAIARARTSRRCPKQLG YPDSAAHVFFQQDRATKYVINR NSKKP*ICSACRSTVSTRQHRR WRGSLQPLSQ
25635	56003	A	25776	307	473	
25636	56004	B	25777	67	809	
25637	56005	A	25778	44	301	
25638	56006	A	25779	1	1519	MINRLQHTVYTHKWNSYRTEP DRRHTALRNSFCLVRLNDSSHS RSLDSKQGHTEITFAATEHPPSP VSLRIHDVAFDDGRQTSRAPCF NLEQPGKLDCTKRLISDCWVM HPGESWHGFKDIPDNWSMLDPI KISILAPGMGEDGELEETGVPA ALVTAWLGRHGIVPTRTTDFQI MFLFSMGVTRGKWGTLVNTLC SFKRHYDANTPLAQVMPELVE QYPDTYANMGIHDLGDTMF WLKENYSGARLNEAYS/GLPSII ERHVVDAAQGYRGGGMLCSCS NFCVSLRLRIQAS
25639	56007	A	25780	461	789	HHVLSELQQLYTAYRSVDHIID HSLAIARAPQRRRCPEKPQLGY PDSLQHVFFQQDRATKYVINGTS KKP*ICSACRSTVTHGHTDAGE EVWNPFAVLVPSGKDARVWG
25640	56008	B	25781	1	990	
25641	56009	A	25782	1	3066	
25642	56010	A	25783	583	904	WGIRTTDFQIMFLFSMGVTRGK WGTLVNTLC SFKRHYDANTPL AQVMPELVEQYPGR*FTGVRK KSNN*FRQGGVDTAGNNL\SEI FSASASAEIFPANSFCNRLA

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25643	56011	A	25784	331	660	TGIQLPGAP*SQPWSTRRRRAVV RPLYRVN*AVP*NR*VIRSKRA MPKRTDIKSILGAGPIVIGQRL GWRDSGVRCLCGVLGSQENVC ELDEKGEERWSISGTSSEFTR
25644	56012	A	25785	1	798	MSDAEDGARTTLGSGNAVERL ADALSQQNVTVIKSTSLDDGFA ILSSNEAIDCLMFSYQMEHPDE HQNVRLIGKLHERQLNVPVFL LGDREKALAAMDRLLELVD EFAWILEDADFIAGRAVAAM TRYRQQLPPLFSALMKYSDI/Q SEYSWAAPGHQGGVGF/TKTPA GRFYHDYYRLLRVAWVLHKTE CRLINFPEPTPIFGNSFRYDIEVSN ESPDEEVKLRRHHLARCMKNF KTDIYFVSTFEPSTKSVDLLTVE TFAGT
25645	56013	A	25786	211	414	RVCECIQLRRRIEFRMISSQPNL PEDLHPQIIAKPSQKRLIEQ*SSK LTVTKARRQGSRYKSSRFFS
25646	56014	A	25787	1694	4974	LSLLSAK/PVYMPVPSRNRYGIIG PI/YPQEMQPETLQKKISE/SPLT KDKAGQKPSYCVV/TNCTYDG VCYNAKEAQD/LLEKTSDRLHF DEAWYG/YARFNPIYADHYAM RG/EPGDHNGPTASYIHVREGV GRLNFFRFNQAYMMH/ATTSP YAICASNDVAV/SMMMDGNSGLS LTQEDCWVMHPGESW/HGFKD IPDNWSMLDPIK/VSILAPGMGE DGELEE/TGVPAALYSNLCLSSG TTGLSTEALLE

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25647	56015	A	25788	1	1709	MSKPKYPFEKRLEVVNHYFTT DDGYRIISARFGVPRTQVRTWV ALYEKHGEKGLIPKPKGVSADP ELRIKVVKAVIEQHMSLNQAA AHFMLAGSGSVARWLKVYEER GEAGLRALKIGTKRNIAISVDPE KAASALELSKDRRIEDLERQVR FLETRLMYLKKLKALAHPTKK LSASLTSMTLKS VFSEIYHENR GRYGYRRVTL SLHREGKQINH KAVQRLMGTE SLKAAIKVKRY RSYRGEVGGTAPNVLQRDFKA TRPNEKWVTDVTEFAVNGRKL YLSPVIDLFNNEVISYLSERP MNMVENMLDQAFKKLNPHEH PVLHSDQGWQYRMRRYQNILK EHGIKQSMSRKGNCLDNAVVE CFFGTLKSECFYLDEFSNISELK DAVTEYIEYYNSRRISLKLKGL TPIEYRNQTYMPRVNCPLFDTL RIPDIGGVVRARAIKLLNDTD MAIIDKRRPRANVSQVMHIIGD VAGRDCVLVDDMIDTGGTLCK AAEALKERGAKRVFAYATHPIF SGNAANNLRNSVIDEVV/DLRY HSAER*NQITAERAYSDPVRKI
25648	56016	A	25789	2902	3271	SSAARHCAGCGDVRSVCRSGR ADAPRMHPGESWHGFKDIPDN WSMLDPIKISILAPGMGEDGE/P TRTTDFQIMFLFSMGVTRGKW GTLVNTLCSFKRHYDANTPLA QVMPELVEQYPAFVINQ
25649	56017	A	25790	185	663	SPVPSSRPSTRHRLPDGSSSSQFS SAIAARKVVNSCILCSKICQN*F NRRASPLKRLP*SGASGMITP NQAPAPQ/PAK*LYTRLDEVKP* *KITHGNGVSFCPTG*A*RTGIS ASSRDLEVQSKKRSFPALNWPA VYCCSALGSAPKCKPIPLRAT V

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25650	56018	A	25791	684	4208	NGLFWLFQPWLFADETRRLERFRDRYQIIHHSSQVCHSDQAVYVLTQERVNERDDIVDIDLFVIDEFYKLAFRQLKSGDIDHQDERVIELNIALSKLLKVSQRQFYLTGPFVNSIRGLEKLGYPHTFVSTDFNTVALDVKTSASKRMTTKPSSKRWGKSRTCVDADHIKNGIGLHFGALPRALQQYTADQFNAGKLRFLCTSTIIEGVNTIAKNVVIYDNRAGSTRITISADIINSVICGLN TLKSFDTTRWALL
25651	56019	A	25792	1	896	
25652	56020	A	25793	231	721	IITA EKGRSREQQLAILPLNLADMRQLQQQHSQTRLADTAADGLRHFTAQQRLMPLQLQAIFVTGQRQLMLQRVGYR/LHGSPWRKAQTHLPVPGSTPEYRRSDPHGPA LTGCSSHHNPVRARRGMTIAQLAANPDKEYRARSFAIARSPLASRSGYETVTPGC
25653	56021	A	25794	1	933	MLEAAVCLCVFVSCSLAEGRA CCRVAVSIPVSVRARIHLLSDHLGRFREPKSIPRKDAQMDTFRTMVREPATFLDQVDGLQQSDDIL RLLPELATLGITELEYEFYRRLVEKQLLTYRLHGESWREKVIERPVVHKDYDEQPRGPFIVCVDTS GSMGGFNEQCAKAFCLALMLIAIANKWRCYIMLSS\TEIVRYELSGPQGIEQAIRFLSQFRGGTD LASCFAIMERLQSFREWFDADAVVISDFIAQRLPDDVT SKVKELQRVHQHFRFHAVAMSAHGKPGIMRIFDHIWRFDTGMRSLRLRR
25654	56022	C	25795	83	1108	
25655	56023	A	25796	1	747	

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25656	56024	A	25797	25	1741	IMERLKRMSVFAKVVEFGSFTA AARQLQMSVSSISQTVSKLEDE LQVKLLNRSTRSIGLTEAGRIYY QGCRRLHEVQDVHEHLYAL NNTPIGTLRIGCSSTMAQNVLA GLTAKMLKEYPGLSVNLVTGIP APDLIADGLDVIRVGALQDSS LFSRRLGAMPVVCAAKSYLT QYGIPEKPADLSSHWSWLEYSVR TDNEFELIAPEGISTRIPQGRF VTNDPMTLVRWLTAGAGIAYV PLMWVINEINRGELEILLPRYQS DPRPVYALYTEKDKLPLKVQV VINSLTDYFVETPTPLSSLTSLPT IEICCMVSIPGTNQRLRPFTGFA THRLQSDLLLQVMTISRGRFSR SARFNGPTPSGRRLIRVIISTESG SRSSNPRTTGCFEEHCDHYRAII DSADGLPMVVYNIPALSGVKLT LDQINTLVTLPGVGALKQTSGD LYQMEQIRREHPDLVLYNGYD EIFASGLLAGADGGIGSTYNIM GWRYQGIVKALKEGDIQTAQK LQTECNKVIDLLIKTGVFRGLK TVLHYMDVVSVP LCRKPFPGPV DEKYLPELKALAAQQLMQERG
25657	56025	A	25798	1	1005	

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25658	56026	A	25799	1	2392	MEMVAASKMRKSQDRMAASR PYAETMRKVIGHLAHGNLEYK HPYLEDRDVKRVGYLVVSTDR GLCGGLNINLFKKLLAEMKTW TDKGVQCDLAMIGSKGVSFNS VGGNVVAQVTGMGDNPSEL IGPVKVMLQAYDEGRDLKLYI VSNKFINTMSQVPTISQLPLPA SDDDDLKHKSWDYLYEPDPKA LLEQCSCMLRSPA WGITSTDTT RARTDLACPIWLLLDYPYKLMG NAPKALASVDKRGVPVNTILVS ALVTALCVLINYLAPESAFGLL MALVVSALVINWAMISLAHMK FRRAKQEQGVVTRFPALLYPLG NWICLLFMAAVLVIMLMTPGM AISVYLIPPLQTNFTNSTTIAMA DYQMESLSAEINFAAKLARA CADEWTARTPEKPRYVAGVLG PTNRTASISPDVNDPAFRNITFD GLVAAYRESTKALVEGGADLIL IETVFDTLNAKAAVFAVKTEFE ALGVELPIMISGTITDASGRTL GQTTEAFYNSLRHAEALTFGLN CALGPDEL RQYVQELSRIAECY VTAHPNAGLPNAFGEYDLAD TMAKQIREWAQAGFLNIVRGC CGTTPQHIAEMSPGRKRLTRAE SSSV PSTLP GKAWLEHALPLIAE QL/QGRRSAVFIPFAGVTQTWD DYTAKTAAVLAPLGVSVTGIHS VVDPVAAIENAEIVVGGGNTF
25659	56027	A	25800	412	1115	LAGEVMDLLLLSNSTLP GKAW LEHALPLIAEQ LGRRSAVFIPF AGVTQTWDDYTAKTVAVLAPL GISVTGIH SVDPVAAIENAEIVI VGGGNTFQLLKQCRERGLLAPI TDVVKRGALYIGWSAGANLAC PTIRTTNDMPIVDPQGFDALNLF PLQINPHFTNALPEGHKGDPR FR\IRELLVVAPELTIIGLPEGNW ITVSKGHATLGGPNTTYVFKAG EEAVPLEAGHRF
25660	56028	A	25801	1	360	MDHAIAGIAVQFRGGNLLRFK AFQQRVKYRMCQAERAINRLF NIAVKRLTG NR LDDKSKQHIIDI AVDIPKWS DHLHIIRRKHHDPT QDSGTHLP AVADDGFRTSVRN RSA*HIRYLTRC*KALNRNKLPP RN*TAIPAMA

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25661	56029	A	25802	1032	1233	LVQFLRICFHILQRF/LPSH*RQK DESLRALPVSLCWRTDSDPFA DISYQNYR*YNREPYLPRPD SG
25662	56030	A	25803	1	1394	MTRDGLANKALAVARTLADSP EIRQGLQKKPQESGIIAIEAVR KRNDLLFIVVTDMQSLRYSHPE AQRIGQPFGDDILKALNGEEN VAINRGFLAQALRVFTPIYDEN HKQIGVINDSRWSIIWSVLFGM LVGLIGTCILVKVLKKILFGLPE YEISTLFEQRQAMLQSIKEGVV AVDDRGEVTLINDAAQELLNY RKSQDDEKLSTLSHSWSQVVD VSEVLRDGTTPRRDEEITIKDRLL LINTVPVRSNGVIIGAISTFRDKT EVRKLMQRLDGLVNYADALRE RSRLEHILHNQRPVFMKLHHR MLRHFIAASVIVLTSSFLIFELV ASDRAMSAYLRYIVQKADSSFL YDKYQNQSIAAHVMRALAAEQ SEVSPEQRRACEAFESANNTH GLNLTAHKISRAYAAHYKPHPL TATQLWKIRSTITRF*SGSGRQP PPG*LRFRSWDGRREISLLSRSL
25663	56031	A	25804	3	219	
25664	56032	A	25805	14	265	
25665	56033	A	25806	744	1566	FASWLRVFSITNCAAPVTSESC ALDLGSAEAKAWIGVENPHRA DVLTELRRSTVARVCTGRAGPR PRTQALLRFLADHSRSKDTVLC EVPEEWVKAQGLLEVRSEISDK NLYLTRPDMGRRLLCAEAVEAL KAQCVANPDVQVVISDGLSTD AITVNYEEILPPLMAGLKQAGL KVGTPFFVRYGRVKIEDQIGEIL GAKVVILLVGERPGLGQSESL CYAVYSPRMATTVEADRTCIY NIHQGGTPPVEAAAVIDLAKR MLEQKAFGINMTR
25666	56034	A	25807	596	745	
25667	56035	A	25808	151	660	STTERLGDDFVRAANIILHCEG KVVVSGIGKSGHIGKIAATLA STGTPAFFVHPAEALHGD LGMI ESRDVMLFISYSGGAKELDLIIP RLEDKSIALAPNSRTVIT*CWFS AGDGGLPGPDYGQDFAAHPAG AGALYKCRDLINDNILRTVSCQ SHDDGDIRGMAFARQ
25668	56036	A	25809	314	583	
25669	56037	A	25810	1	2982	

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25670	56038	A	25811	120	790	EGLKTKGEKASPPSCLSFCKNE FVISSTDYALSQSQSGGVMHRQ SFFLVPLICLSSALWAAPATVN VEVLQDKLDHPWALAFDPDNH GMLITLRGGELRHWQAGKGLS APLSGVDPDVWAHGQGGLLDVV *APDFAQSRRIWLSYSEVGDDG KAGTAVGYGRSLDDLSKVTDF RAVFRQMPKLSTGNHFGGRLV FDGKGYLFIALGENNQRPATAQD HRVPSWYK
25671	56039	A	25812	707	1141	ASHTATSPRPVRLSSSIASITLAV NATCGMASSRRIR*CTLFKRA PSAPAGWERAKSSSLNPRACMT AIASASPIIRVLTVLEVGAACIG QGSRSDESTLSPFIKMVPPNSLT TALAVIPPFSLSDTLPEVLISLSLI YNTLF
25672	56040	A	25813	215	2160	EINSITSRLSIIPRSPCSASAGWT KKAGVPVLASVAAIFLPMWPD LPIPETTTLP SQCKMILAARTKS SPR/RSNIMTHIRIEKGTGGWGG PLELKATPGKKIVYITAGTRPAI VDKLAQLTGWQAIDGFKEGEP AEAIEGVAVIDCGGTLRCGIYP KRRIPTINIHS TGKSGPLAQYIVE DIYVSGGKEENITVVGDATA PQP SFVGPDYDTSEKLMIVRKKPIG VQMLYQVGTVSMLLYTRTIIQT KMTPTTIVTISHSVRNAGDSFFS IASNQMPPTAKKIEPLAISLLS AEAPTRLSELKARIGEPRWSIEA IKPMPISTHKPNMQAITPPARRA ILSPCACESRSRQEPGPGCHCS CPNHSCRSRLKGVLSMEQYLL QQKHVGTTPPGFPRPPDTNQPCW KTKPSQREEYTRRVGFTGHSNQ GAKIIRTHIICRRRTSFALERPGD GFQAVVGGTVLMGLPRTKNVG LPVTILGRVHRRSSERFPRTSES AINRKDAGPKDPVRQRLAYKK HPMERRHGHVVARTEFGRAIPT LGPHRTVLSTRFQVAKNPLGPI GPSPLAVLTWTVPRPKNGRRG GKQRARIICQSREASCNNVCL ARSSGVFKGFSPVSSSGEHTGN KYSAYSFSLCLFVFLPLSGRLL

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25673	56041	A	25814	11	613	RLSSVFVSKSLASWRSCNCSFS GPLVRLTIRPLSPDVRLLLS VVHAYNCPHQETQRHHTHHLT P/RLPNHGQIAISAMVYSSPATN/ SMLRQLLIQHVEQIGSVPLVMD AISLVEAHD/RSAAG*SRPLY*R AN*SSRY*VSYARKRVRQAKSR /HGKPSKKVLAKRAVPNRVCRC CNRVKRRCICQPKRRKCMTPV RATR
25674	56042	B	25815	1	1920	
25675	56043	A	25816	247	1182	EAVMRQTKTGILLANLGTPDAP TPEAVKRYLKQFLSDRRVVDTS RLLWWPLLRGVILPLRSRPAK LYASVWMEG/GSPLMVYSRQQ QQALAQRLPEMPVALGMSYGS PSLESAVDELLAEHVDHIVVLP LYPQFSCSTVGAVWDELARILA RKRSIPGISFIRDYADNHDYINA LANSVRASFAKHGEPDLLLSY HGIPQRYADEGDSLRELYAVA NPNPGPGMGVLLAYMFFGRGS AKQSAGGSGLDGLLRTPPITP GGYFSVFVWKSLSGWSRSCNCS FSGPLVGLTIRPRFTAGRSPTSF AQRCTCL
25676	56044	B	25817	1	651	
25677	56045	A	25818	1	1647	
25678	56046	A	25819	1	1506	

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25679	56047	A	25820	645	2161	LDRCALNVTAQPSIECQVANAC LSPKGEFEYLQIDAPTPQALLSE IEKCWHRHRNVWPDHTINLAL AIHGQVDPVTGVSQTMPQAPW TTPVEVKYLLEEKLGIRVMVDN DCQLHYCKTAILNWSRKMALS RQKFTFERLRRFTLPEGKKQTF LWDADVTTLACRATSGAKAFV FQSVYAGKTLRMTIGNINDWKI DDARAEARRLQTLIDTGIDPRIA KAVKIAEAESLQAESRKTKVTF SVAWEDYLQELRTGISAKTKRP YSTRYIADHINLSSRGGESPLGL LLAFTLFGKGMSKRSAPGAMI IHFLGGIHELFPYVLMKPLTII AMIAGGMSGTWMFNLLDGGL VAGPSPGSIFAYLALTPKGSFLA TIAGVTVGTLVSFAITSLILKME KTVETESEDEFAQSANAVKAM KQEGAFSLSRVKRIAFVCDAG MGSSAMGATTFRKRLEKAGL AIEVKHYAIENVPADADIVVTH ASLEGRVKRVTDKPLYGPAVV
25680	56048	A	25821	2	341	
25681	56049	A	25822	218	469	LICAQGRRSPSRESTRQPKVLT ACHNGSVSVVVLSPNSLYIEVV VPS*CNAATGPVVTCLYKGKFQ PILILLVTSTRVSSCI
25682	56050	A	25823	1	3966	
25683	56051	A	25824	2	728	
25684	56052	A	25825	528	1123	DAEEGPDHRYLSSAHGGGSAS QPPSCAVTACRWPWRGRGCRA GVWNQPTAAQGRSWPVGKTSC *GQGSTCKSQTWGFRGQRLPQ DAPAPPASLCASFHLVEAGASA DSGDTRRMTIR/FASKTVARAK RIIRVLRFSPLWVATRSLASTAI KIACCASEPGSFLQLWKPRSMA PVHRCTWHEACPEGQRQMSCV SSTGL
25685	56053	A	25826	1	492	

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25686	56054	A	25827	1740	3858	ADAAGTEKTATVSRVHFYLRYP RSGRSVIDVRSWWRFSDAL SRSIPRAISICARGKPVVTAKFK QGTMPSPNSKAILPIRFFPGVV LMIKKSGGRWQLSLLASVVIS AFFLNTAYAWQQEYIVDTQPG LSTERYTWSDHQPDYNDILSQ RIQSSQRALGLEVNLAETPVD VTSSMSMGWNFPLYEQVTTGP VAALHYDGTTTSMYNEFGDST TTLTDPLWHASVSTEGWRVDS RLGDLRPWAQISYNQQFGENI WKAQSGLSRMTATNQNGNWL DVTVGADMLLNQNIAYAALT QAENTTNSDYLYTMGRTRWL TLIGHTITQFALGSVYTWSLFNG ALSAKLDAPVSQVAFSFGLLSL GLAISSSVAGKLQERFGVKRVT MASGILLGLGFFLTAHSDNLM MLWLSAGVLVGLADGAGYLL TNSNCVKWFERKGLISAFAGS YGLGSLGFKFIDTQLLETVGL KTFVIWGAIALLMIVFGATLMK DAPKQEVKTSNGVVEKDYTLA ESMRKPQYWMLAVMFLTACM SGLYVIGVAKDIAQSLAHLDDV SAANAVTVISIANLSGRLVLGIL SDKIARIRVITIGQVISLVGMAA LLFAPLNAVTFFAAIACVAFNF GGTITVFPSLICGSHASLFGGFY VTFYVIFALLILSLALSTTIRQPE QKMLHFTYLTTSALFPAGPKRN
25687	56055	A	25828	2	356	
25688	56056	A	25829	1	1307	MYETLEEVLRSSGDPADQKYV ELKARAEKALDDVKRKLYC WRRRQICALRRISRSPYPGHQL ECIASFDRNFEMQKEMYGQF ENTFMMYLPRLCEHCLNPSCV ATCPSGAIYKREEDGIVLIDQDK CRGWRLCISGCPYKKIYFNWKS GKSEKICFCYPRIESGQPTVCSE TCVGRIRYLGVLLEYLTAQQFF PVWPPDHFVHPF*TLVLPAPP SR*CDRVQLMASLQSVARASRE YRWYGF*SR*TPRKALALAQLRP AESSPTAPDCN

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25689	56057	A	25830	583	1369	RHQLNSIASPAGGRWKDIGWF NFPQSNLCLKREKQDESCSLTQ ALPSELKVSADNVSLTGAVSLA SMLTEIFLLQQAQGMPEPGWG RITDSHQWNTLLSLHNAQFYLL QRTPEVARSRATPLLDLIKALT PHPPQKQAYGGTLLPLVRFMA GPDNTLANLGGALKFNWTLPG QPDNTPPGGELVFERWRRLSDN SQWIVSLVFQTLQQMRDKTP LSLNTPPGEVKLTLAGCEERNA QGMCSLAGFTQIVNEARIPACS
25690	56058	A	25831	199	543	
25691	56059	A	25832	1	642	EASIFRRLSVYDNLMAVLQIRD DLSAEQREDRANELMEEFHIEH LRDSMGQ*SARPGRCRAGAQ* CV*CR*PRSGQPRQTVRAE*IS DSQPVRGQFLHG/VRSPPESDCP MLSRRCM*NSSISSFARSSRCS ADKSSRICSTAIRLS
25692	56060	A	25833	3	329	
25693	56061	A	25834	1974	2195	
25694	56062	A	25835	1	615	
25695	56063	A	25836	2	166	
25696	56064	A	25837	2	189	STPGNWRFTTTYPLNCATRWK M*FLIVATMAPSVYWSLPRNIA AAKPTTPPTPSRRSGARGK
25697	56065	A	25838	64	354	
25698	56066	A	25839	1123	1845	
25699	56067	A	25840	1120	2097	
25700	56068	A	25841	124	548	CRQMVGTTRRGGEQGKEVIDGY GKPATFYQMQDNGKPVEGHAS QMHYELAKDFVVLTGNAYLQ QVDSNIKGDKITYLVKEQKMQ AFSDKGKRVTTLVPSQLAKA YKGVAW*KTSA*PSTPGKLSV CWGQTVPVRPPLSTWL
25701	56069	A	25842	77	514	
25702	56070	A	25843	2487	5738	RRAAGLPGRNDAGLARSHQWA GSADTGSEKQHELQLRIQGEPV SGQLNLAGSFDRKEERWKGTL SNTRFQTPVGPWSLTRDIALDY RNKEQKISIGPHCWLNPNALC VPQTIDAGAEGRAVVNLNRFD LAMLKPFMPETTQASGIFTGKA DVAWDTTKEGLPQGSITLSGRN VQVTQTVMDAALPVAFQTLNL TAE LRNNRAELGWTIRLTNNG QFDGQVQVTDPPQGRN LGGNV NIRNFNLAMINPIFTRG
25703	56071	A	25844	538	777	

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25704	56072	A	25845	489	2797	TRRRRTMIALIQRVTRASVTV EGEVTGEIGAGLLVLLGVEKDD DEQKANRLCERVLGYRIFSDAE GKMNLNVHQAAGSVLVVSQFT LAADTERGMRPSFSKGMSQLP GLSRETRESIAMYHLRVPQTEE ELERYYQFRWEMLRKPLHQPK GSRDAWDAMAHHQMVVDEQ GNLVAVGRLYNADNEASIRFM AVHPDVQDKGLGTLAMMTLES VAPYFSGSETGMMTLNRYRLR HMAKQGNRSKRVEKLLRKPD RLISLVLIGNNLVNILASALGTI VGMRLYGDAGVAIATGVLTfV VLVFAEVLPKTIAALYPEKVAY PSSFLLAPLQILMMPLVWLLNA ITRMLMRMMGIKTDIVDMLLS VLDLEKM/TVDDIMLPRSEIIGI DINDDWKSIL/R/QLSHSPHGAIV LYRDSLDDAISMLRVREAWRL MSEKKEFTKETMLRAADEIYFV PEGTPLSTQLVKFQRNKKKVGL VVNEYGDIQGLVTVEDILEEIV GDFTTSMSPTLAEEVTPQNDGS VIIDGTANVREINKAFNWHLPE DDARTVNGVILEALEEIPVAGT RVRIGEYDIDILDKLSFCFRYSN HRRTNRTTIQRITFLHNAQYVT WRNVIRFHHCDGLMHIRVQWD VSFGDHFNAKLTHNIQHRLQRQ LNAFNHRRHIRVSFISHFQRTIQ AINHRQQFVDEFLQREFVGGFNI
25705	56073	A	25846	87	199	QPASVQTAGAGCRL*LHQQRQW RECLVLDSKRRGDGVL

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25706	56074	A	25847	1167	3306	GKSMDKELPWADNAQLELK YKKGKTPLSHRRWPGEVSVIT GSLIQTLDGDELLQKAEEKKNIV WRYENFSLEWQSAITQAINLIG EHKPSIPARTMAALACIAQNDS QQLLDEIVQQEGLEYATEVVIA RQFIARCYESDPLVVTLLQYQDE DYG YGYRSETYNEFDLRLRKH LSLAEEESCWQRCADKLIAALPG INKVRRPFIALILPEKPEIANELA VPALREFLAATKMPATCTLKGL GAVEADYPYYLGMLGMHGTK AANFAVQECDLLIAVGARFDD RVTGKLNTFAPHASVIHMDIDP AEMNKLRQAHLRDEHSWRYD HPGDAIYAPLLLQLSDRKPAD CVVTTDVGQHQMWAAQHIAH TRPENFITSSGLGTMGFGLPAA VGAQVARPNDTVVCISGDGSF MMNVQELGTVKRKQLPLKIVL LDNQRLGMVRQWQQQLFFQER YSETTLTDNPDFLMLASAFGIH GQHITRKDQVEAALDTMLNSD GPYLLHVSIDELENVWPLVPPG ASNYKKHHKLKQTFGVKIIPDV HDPSQAQPVADVNVVIQLPAFL ARQTDLVETHGENRPGQMGNI VDKFKEGGNEKVILCDRGANF GYDNLVVDMLGFSIMKKVSGN SPVIFDVTHALQCRDPFGAASG GRRQAVALARAGMAVGLAG LFIEAHPDPEHAKCDGPSALPL
25707	56075	A	25848	1	695	MATRASVTPMSLFSAGTCLLST SCVLSPVGDTAEESCWQRCAD KLIAALPGINKVRRPFIALILPEK PEIANELVGLECPRTHFHSKEW LKVVANDPTAVRKLEHYWSQD IFSDREASYMSHENHFGYAACA ALLREQGLAAIPRLAMYAHKE DCGSLLVQINHQPQVIRTLALLVA DKNKPSLQRVAKYHKNFPHAT LAALAELLALTEPPA/RPWLSN HRRQKA ACTAKSTR
25708	56076	A	25849	823	1091	CVR FARINCSDRSRFCFAGFNH VLNKALGVHINHFG/YSA CAP* CRYPPHAAGEFYDPDRHKGTT GYRHRQGYPPPGEP PRASWLD LR
25709	56077	A	25850	714	875	EFSSARISRTSRLKYTNCCRL WSAFCRLRTATTVPARP*QLR PDRSRAQCQ

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25710	56078	A	25851	2730	2893	WPVGERLAPGDYPVI*TGQLCT AAGD/EWRR*KVRRHQPLWRG FPNRRYMAW RSA
25711	56079	A	25852	750	929	SFHPAGRRYLYRHSSRSGNITN GCCRLWSAFCRLRTATTVPPAR P*QLRPDRSRAQCPV
25712	56080	A	25853	2	2427	CRQHHRWHS GSTAVYRRVLITS KCWNVFIRTKTWTVSILTTSVV CASARRVCVPAPRAVSSRCLSV TTLIPSASTPW*LAHRISLAAR* AFWFNC RIPAGIDNVKVLERIH PDKDVGDFHPYNVGR L CQ RAP RLRPCTPRGIVTLLERYNIDTFG LNAVVGASNIVGRPM SMELL L AGCTTTVTHRFTKNLRHHVEN ADLLIVAVGKPGFIPGDWIKG AIVIDVGINRLENGKVVG DVVF EDAAKRASYITPVPGGVGPMT VATLIETRYRQGMFDGSSIGG WKGINESDMV LMPDASTAVID PFFADSTLIIRCDILEPGTLQGYD RDPRSIakraedyLRSTGIADT VLF GPEPEFFLFD DIRFGSSISGS HVAID DIEGA WNSSTQYEGGN KGRPAVKGGYFPVPPVDSAQ DIRSEMCLVMEQMGLVVEAHH HEVATAGQNEVATRFNTMTKK ADEIQIYKYVVHNV AHRFGKT ATFMPKPMFGDNGSGSPSPQPQ SQPTPEILLQALLSAGCFYAVY YVTYKTRLRKR VADVPRRPLFT MNRVETNLTWVILMGIALVSV GIFFMHNGFLLFRLNSYSQIFSS EVSGVALKRFFYFFIPAMLVVY FLRQDSKAWLFFLVSTVAFGLL TYMIVGGTRANIIIAFAIFLFIGII RGWISLWMLAAAGVLGIVGMF WLALKRYGMNVSGDEAFYTFL
25713	56081	A	25854	502	885	
25714	56082	A	25855	233	738	SNSCKRTKIISDVTSVFHAI FPAI KITAPNSPRLRVNDSATPLTSAG ESSGSTTLQKLCQRVAPSVSAA SSYSGPNLFQHRLHGTHPKRNA GKGHSHRNPQPCIGDFDIKLRQ PFTVKTLVYKEKGQR*GGDRV LPAQRVNPSAHQAACGLGSDS GLGSTPSADRKRR

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25715	56083	A	25856	1	2363	MRRQDTGRRGRKRRDAGRWQ WRYWGKGSFTPMNATWDVAG KGEWHDSTITLTDLSTGFDQLQ YGTMTVEKPRILDKPIVWVRD AQHPSFSGALSLDAGQTLFTGG SVLPPSTLKFSDGRDPTYFLFK GDLHAGEIGPVRVNGRWDGIR LRGNAWWPKQSLTVFQPLVPP DWKMNLRDGELYAQVAFSAA PEQGFRAGGHGVLKGGSAWM PDNQVNGVDFVLPFRFADGAW HLGTRGPVTLRIAKQRKEMRN NNLRQFKLLGPDVGFDSSINDRP MAEELSKLLSKQNEENLLPKTI LYCLNPRDNEVLGTMIENGASF AANPLYFDPKNIVELAIEAGCN CVASTYGVLASVSRRYAHRIPF LVKLNHNETLSYPNTYDQTLY ASVEQAFNMGAVAVGATIYFG SEESRRQIEEISAAFERAHELGM DGGWIGLMIKPLGRWSLIMEID EGFAVGMSPAELSAEQLLSKL WLWEGKAERYGWGRKSMDKE LPRLADNAQLELKYKKGKTPLS HRRWPGEVSVITGSLIQTLDG ELLQKAEEKKNIVWRYENFSLE WQSAITQAINLIGEHKPSIPART MAALACIAQND SQLLDEIVQ QEGLEYATEVVIARQFIARCYE SDPLVVTLYQDEDEYGYGYRS ETYNEFDLRLRKHLSLAEESCW QRCADKLIALPGINKVRRPFIA
25716	56084	A	25857	1	4440	MNRFDGAKQNVVGADAHHLA DTAVKRNQSLFQLRASGHPRLP AGGGKAVFHGRFAAKKIEAVA FYFRHLIALLVQMHFKLVKG NVDVVFTAQLIDSTVQLIDSTTT VTQFTHIQTQLMRSVEWLTND GSCYRANETRQFARMLGLEPK NTAVRSPESNGIAESFVKTIKRD YISIMPKPDGLTAAKNLAEAFE HYNEWHPHKAGTLTNEQWQQ VTAEHHRMMETVFFALDDAE QLFAHHQPTPVTSVDLLGQG

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25717	56085	A	25858	1	3705	MEEYGGVDVRLYRIPDMAFL RQQKNLHRIVVQPQYLGDLN NTLTWLWDNWDGKSRRVMQR TFSSQSRQNVQTALPELQLGNA IHKPSRYVQNNQFSPLKKYPLVK QFRYPLWQAKPFEPQQGSRGL YLVEAMVGGYRATTGGVSDT VALSKVSSKELLVWTAGKKQV NEPGSEIFGLTALRITAENQDCA SLTPETFLPRIHVIKGVNISTATV CRQCEDAPCANVCPNGAISRDK GFVHCEARTLHLFAKT
25718	56086	A	25859	123	923	TDSPYERGHLSNLLGPRDAN GIPVPMTVDESIASMKASLLKKI KRSAYVYRVDCGGCNGCEIEIF ATLSPLFDAERFGIKVVPSPRHA DILLFTGAVTRAMRSPALRAW QSAPDPKICIS\YGACGNSGGIF HDLYCVWGGTDKIVPVDVYIP GCPPTPAATLYGFAMALGILE QKIHARGPGELDEQPAEILHGD MVQPLRVKVDREARRLAGYRY GRQVADDSFTQLGQGEEQVAR WLEAENDPRLNEIVSHLNHVVE
25719	56087	A	25860	1337	1516	KLKSKSAKRHKFITPILAWRLI HYLQRVAV*WGSRL*LFITIP SRWRLPHNTGKG
25720	56088	A	25861	1	545	MARLAALKACETVYSMGVRSR RRSPLEHLWQLKDQLVNEGEL VLETVIDGDENTVLVPGDRYA QMRNVYFIPSALALKNLKKC GFVDIRIADVSR/ITTTEEQRRT WMVTESLADFLDPHDPGKTVE GYPAPKRARNRNRAEDHRQRL RHRTRKKQTHGQRRRHRPEPA QRQPQTGTTD
25721	56089	A	25862	620	1117	
25722	56090	A	25863	1	1188	
25723	56091	A	25864	231	407	
25724	56092	A	25865	1	501	
25725	56093	B	25866	1	2373	
25726	56094	A	25867	1	2211	

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25727	56095	A	25868	2093	3589	GGINGKNFWFFLSPFTPCVGRCHSRVQLANSHLVDVDETPPSSAAVHLYATDADSIGNCGTDREFCPCNPIRRHAFCCERLQNGYHRSGYAFHLGHYGDRKVITNFYSLIAKNHLSHWLETLPAQIANWQREQQHGLFKQWSNAVEFLPEIKPYRLDLLHSVTAESEEPSAGQIKRIETLMRNLMPWRKGPFSLYGVNIDTEWRSDWKWDRVLPHLSDLTGRTILDVGCSGSYHMWRMIGAGAH LAVGIDPTQLFLCQFEAVRKLLGNDQRAHLLPL/GIEQLPALKAFDTVFMSGVLYHRRSPLEHLWQLKDQLVNEGELVLETVIDGDENTVLVPGDRYAQMRNVYFIPSALALKNLKKCGFVDIRIADVSVTTTEEQRTEWMVTESLADFLDPHPAIFQIWPCTFMHAYHAFFDPVSHHRACQNLTTFPDTHQIAIRNTKACSIFVSFALRTTHSCAISHSSLEDPPAIFKIAADRMEQNLELLATAGNLG
25728	56096	A	25869	231	1785	DDEVHRYSELRTRTVPSYPPERSGEAKTAAQRAGTAFRRGRGAGVPFNLQQRSDRWCS*RSQQNA*RLIGLHGQNSRSVPQLPMESASVA*RCGSIIKTTLSSRPFYWCPGCQHYADRFGA

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25729	56097	A	25870	1818	3311	RMAIQFRTLRLWCWKISLVSS FTVVKAMTIRIVAMRQLLRQQ KQRTFVC*SS/TVDGVLSDDLIIY MGNNGEELKAFNVRDGYGIRC ALTSDIEVAIITGRKAKLVEDRI LPHWGSLTCIRGSQTN*SPLAIC WKNWRLP/QENVAYVGDDLID WPVMEKVGLSVAVDDAHPLL GTEIDAYIENADYQYNKKRLRE IDRRVRYLTKLENLKIVDYSP QQEGKVFFGAWVEIENDDGVT HRFRIVGYDEIFGRKDYISIDSP MARALLKKEVGDLAVVNTFAG EASWYVNAIEYVKPRLNQTVR LLEHEMGQVWISGEISNFTQP ASGHWYFTLKDDTAQVRCAM FRNSNRRVTFRPQHGGQVLVR ANITLYEPRGDYQIIVESMQPA GEGLLQOKYEQLKAKLQAEGL FDQQYKKPLPSPAHCVGVITSK TGAALHDILHVLKRRDPSLPVII YPAAVQGGDAPGQIVRAIELAN QRNECDVLRPCVWCRRVRCRR
25730	56098	A	25871	1	3465	
25731	56099	A	25872	1	3126	
25732	56100	A	25873	1	1722	MSSLSQAASSVEKRTNARYWI VVMLFIVTSFNYGDRATLSIAG SEMAKHIGLDPVGMGYVFSAF SWAYVIGQIPGFVDIFSGFGIIV ALFTLRFLVGLAEAPSPFGQSRI VGDWFPAQDRGTGVSIFTPFIL RKGDLRPIWVVILMAGQLHAL MSTLEDTPFSNKAGMRLRRWI NAAVMRLNPLACLATRSNQVN WLLLTGNISVYPVGSSEPTRRR STPINSTPHFNKTILPINARYSPT LPSSDGTRWTTTRIDDKPTVGHK FARYWDVELREIP\MRPG\QLFR DPKRMIEGCAENPL\GV\VPFTFG VTYAGNYEFPQPLDALNKFQ ADPGIDIDMHIDAASGGFLAPF VAPDIVWDFRLPRVKSISASGH KFG LAPLGCGWVIWRDEEALP QELVFNVLDYLGQIGTFAINFS RPAGQVIAQYYEFLRLGREGYT KSTQPARGSPANNCAQAPETP DRAVIHPTDGYESAATIIIVLSPP TASDSDPAHRDQRVVKTDASWS VVPGSTSEYPRRYKAEWFCQPF AVLPAILAWSAALWRYQPRAR RRKADYGCRLNSLKNELTTP

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25733	56101	A	25874	1	2385	
25734	56102	A	25875	1	1767	
25735	56103	A	25876	1	2079	
25736	56104	A	25877	368	1261	TSPPRARPAAQGSRGAF/HLTE KGVNRFAYGLPESSGKRWAT EREYAFRQLVAEEKYRGVVYQ GLETAPENWQHAQNRLADWL QTLPPQTGIIAVTDARARHILQV CEHLHIPVPEKLCVIGIDNEELT RYLSRVALSSVAQGARQMGYQ AAKLLHRLLEDKEEMPLQRILVP PVRVIERRSTDYRSLTDPAVIQA MHYIRNHACKGIKVDQVLDAV GISRSNLEKRFKEEVGETIHAMI HAEKLEKARSLLISTTSLINEISQ MCGYPSLQYFYFVFKKAYDTT PKEVFAIVNSEVML
25737	56105	A	25878	1	868	MTSLKNSMKWDEERFGLEYDL DIYMIVA VDFNMGAMENKGL NIFNSKYVLARTDTATDKDYLD IERVIGHEYFHNWTGNRVTCRD WFQLSLKEGLTVFRDQEFSSDL GSRAVNRINNVRTMRGLQFAE DASPMAPIRPDMVIEMNNFYT LTVYEKGAEVIGMTPLFGQE NFQNVILTCALEDPTRKVVLP LCRPPLSLCNRKRVMCRIFTSS ASTLRLSRRCAVCWNSRITVSM RSSRRVTSVWLSAPTPHILSPAIF IVRWWLLDSNPLIYYKAWSCW CSRK
25738	56106	A	25879	2097	2512	NTPVRPDVGT*TEEHGGAESGE *RNSRELRENDKA*LHQYHAQP DGKNLAFAFEHYNEWHPHSAL GYWRTVD/DMRGR*PQEPSLMI RAGRSSSPVQWQRIPLLIPGRKG DRMQKTVIPGSLFAGMPYAQPS IKTELAG

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25739	56107	A	25880	71	2613	QRKPTSSRKGLSARMMMSGLTG TITTVSTGWCTTRGHNMKSRW SKVAIFTTR/SGRRVAKRVWRR ERDLTGWMSLSRKQPQVTWYG WDGDRLTTIQNDRSRIQTIYQP GSFTPLIRVETATAVRRRRRWQ WGIPAGTVQMLDRLESEILADR VSEESRRWLASCGLTVEQMKK TSIHASIVRHKLLTAEQALKLLG EMFVYHMPFNALGMELERYE KEFAQLAFKNQPMIVGNWAQ SILHGGVIASALDVAAGLVCVG STLTRHETISEDELQRQLSRMGT IDLRVDYLRPGRGERFTATSSLL RAGNKVAVARVELHNEEQLYI ASATATYMSKSMFLAVATILIS KSSLSRLRRPSTIVCGIPISSISAN ITPGRSLRSSSSTSKTLCTQFAV QFLSKLLYAEGFVHVHRQNRH LERRDSVRPYDASFVVLLNRR SYHTRYPDTVATHRQDLVTAIF TLYGGFQCFGLGTQLEDVTNF DTTFDQQPTLAIRAWIASHHVT DICNFRGSDIAIPVDAEVVFTID VSTSSEITHRRNVDLFPDQLTVT RSQTFTAYERLSTALTVAQVCG VQRLCNYY SARLTPLPGPDSTR ESNHRLAQITQYARQLASSPSII DNRSRQHLNDVGLTAWDCVIIS QIIGFIGFQARTIATFQAYLGHP VRWLPGLEIQNYADASLFADES LRWRSSYEVEKLPEEHTKSSTA
25740	56108	A	25881	71	3478	CCLSSHPSTTATALRSLSPVRK WPKISALIPWEWAMCSLLSHGL MLSGRSLVAWCWTVLVQNAS TSGRSLSGRCLPCKASSISLVD SALSFLFLTLRFLVGLAEAPSFP GNSRIVAAWFPARKGTGIINEIS PLANTALEGLGGSGDALCTQC EAEGFRHITYYLD RPDVLARFT TKIADKIKYPFLLSNGNRVAQG ELENGRHWVQWQDPFPKPCYL FALVAGDFDVL RDTFTTRSGRE VALEYVDRGN

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25741	56109	A	25882	90	629	PGDWGRRQLIGS*KTPGSVFVK GKSSTPNADPFLKDKTQDRSGL ATFTMDGQ\RLFYQ\DISGNHS GK\QSLPPAQVIVSNSVDHLKIT GVEDHKPIFAGAGKPYQNLQRQF IDEGNYTSGDNHTRLRDPHYVED KAHKYLV/FEANTGTENGYQG EESLFNKAYYGGGTNFFRGSSR VDLQAC
25742	56110	A	25883	1	3066	
25743	56111	A	25884	104	547	LFPRLLSCLTTPPHCSFSICFVIC SRTLILKGSSLMYVFCLPNTAIV MALSPRGWRSKFGMPVDSKGP PWLFKFLKGNLNFLLHSVGTRO LSRLSTILSPLYNTVAPGAN*CR ELKLVLDDADDVLSTEVKRVITS SASNITPAFFCS
25744	56112	A	25885	3	4288	
25745	56113	A	25886	2	2222	DFADFGTTIKQDFRLLGQTSVD RLLQLSQGQAVKGNQLLPVSLP QHTIPDVFIWMLSNRRVAYA RIASKDLLYSPVAGQMKGKHC KIKTHFLKIPKQQQNEKYQVPQ FDQSTIKNIESAKGLDVWNSWP LQNADGTVAEYNGYHVVFALA GSPKDADDTSIYMFYQKDFRLL GQTSVDRLLQLSQGQAVKGNQ LLPVSLVKRKTTLAPNTQTASP RALADSLMSWHDRFPDWKAG RILPISEPPSNRIFACWGKPAWT ACCNSLRARR*RAISCCPSHW* KEKPPWRPIRKPLPARWPIH*C SWHDRFPDWKAGRKGS DAHRF GSWKFLQQRVSG\SATFTWGG KIR\LYSADYSGNHYGKQSLPS GQVNGSNSDDTLKINGVEDHK TILDGDGKTYQNVQQFIDEGNY TSGDNHTRLRDPHYVEDKGHKY LVFEANTGTENGYQGEESLFNK AAYYGGGTNFFRKESQKLQQA KKRDAELANGALGIIELNNDYT LKKVMKPLITSNTIRKSDGTLQ EHDGICEIHVAKYAEIFGLTSAE ASKDIRQALKSFAGKEVVFYRP EEDAGDEKGYESFPWFIKRAHS PSRGLYSVHINPYLIPFFIGLQNR FTQFRLSETKEITNPYAMRLYES LCQYRKPDGSGIVSLKIDWIER YQLPQSYQRMPDFRRRFLQVC VNEINSRTPMRLSYRMGVRGK
25746	56114	B	25887	1	2640	

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25747	56115	A	25888	1291	1629	
25748	56116	A	25889	1187	2925	NSLQRSHPNAAANS/WHNKLWR SHSDSDLSDHHEPICKPGLELN KKDITTSADQIAEVKTMESHPI PPVFVEHMPQDANQKGLCTK ERMICLEFTSREFHAGQIEDELN LNDINGCSSGSTLEDPOFNDDSP EARKITRRWRIGEAADLVGVSS QAIRDAEKAGRLPHPDMEIRGR VEQRVGYTIEQINHM RDVFGTR LRAEDVFPPVIGVAAHKGGV YKTSVSVHLAQDLALKGLRVL LVEGNDPQGTASMYHGWVPD LHIHAEDTLLPFYLGEKDDVTY AIKPTCWPGLDIIPSCALHRIET ELMGKFDEGKLPTDPHMLRL AIETVAHDYDVIVIDSAPNLEDP RVGVMARGNAITLPVCGRDVK FTLEVLRGDSVEKTSRVWSGNE RDQELLTEDALDDLIPSFLTGTQ QTPAFGRRVSGVIEIADGSRRR KAAALTESDYRVLVGELDDEQ MAALSRLGNDYRPTSA YERGQ RYASRLQNEFAGNISALADAEN ISRKIITRCINTAKLPKSVVALFS HPGELSARSGDALQKAFTDKEE LLKQQASNLHEQKKAGVIFEAE EVITLLTSVL
25749	56117	B	25890	1	1954	
25750	56118	A	25891	1	454	MERRNRRTGRTEKARIWEVTD RTVRTWIGEAVAAAAADGVTF SVPVTPHTFRHSYAMHMLYAG IPLKVLQSLMGHKSISSTEYTK VFALDVAARHRAIRVPRQQGD YRTRIWK FEDGLSNVLVIQLNK LIICVMCLVRDCDVLKTYFHL
25751	56119	A	25892	10	144	FLFIGKGLKGIT*PGQIVQRG*E KKSNT*FRQFGGVDTAGNNLT

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25752	56120	A	25893	888	892	TVDLDACTKGVLTFTTALLAG GANQAFAKENTKKAYKETYG VSHITRHDMLQIFKQQQNEKYQ VPQFDQSTIKNIESAKGLDVWDS WPLQNADGTVAEYNGYHVVF ALAGSPKDADDTSIYMFYQKV GDNSIDSWKNAGR VFKDSDKF DANDPILKDQTQEWSGSATFTS DGKIRLFYTDYSGKH YGKQSLT TAQVNVSKSDDTLKINGVEDH KTIFDGDGKTYQNVQQFIDEGN YTSGDNHTLRDPHYV/EDKGH KYLVFEANTGTENGYQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGIIELNND YTLKKVMKPLITSNTVTDEIER ANVFKMNGKWYLFTDSRGSK MTIDDLWKFELEND DLEYLVE ENSKQKTIQDVIWFLTA YTHI RGATQAFAKENNQKAYKETYG VSHITRHDMLQIPKQQQNEKYQ VPQFDQSTIKNIESAKGLDVWD SWPLQNADGTVAEYNGYHVVF ALAGSPKDADDTSIYMFYQKV GDNSIDSWKNAGR VFKDSDKF DANDPILKDQTQEWSGSATFTS DGKIRLFYTDYSGKH YGKQSLT TAQVNVSKSDDTLKINGVEDH KTIFDGDGKTYQNVQQFIDEGN YTPGDNHTLRDPHYVKTAMR

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25753	56121	A	25894	1424	3807	HPLWKWLEGDMNMNIKKIVK QATVLTFTTA/LLAGGATQAF KENNQKAYKETYGVSHTRD MLQIPKQQQNEKYQVPQFDQS TIKNIESAKGLDVWDSWPLQN ADGTVAEYNGYHVVFALAGSP KDADDTSIYMFYQKVGDNIDS WKNAGRVFKDSDKFDANDPIL KDQTQEWSGSATFTSDGKIRLF YTDYSGKHYGKQSLTTAQVNV SKSDDTLKINGVEDHKITFDGD GKTYQNVQQFIDEGNYTGDPL EAETAVINHKKRKNSPRIVQSN DLTEAAYSLSRDQKRMLYLFV DQIRKSDGTLQEHGICEIHVA KYAEIFGLTSAEASKDIRQALKS FAGKEVVFYRPEEDAGDEKGY ESFPWFIKRAHSPSRGLYSVHIN PYLIPFFIGLQNRFTQFRLSETKE ITNPYAMRLYESLCQYRKPDGS GIVSLKIDWIIERYQLPQSYQRT PDFRRRFLQVCVNEINGAVIGIP CVSIRKPDGSGIVSIKIAWIIERY QPPQSYQRMPDFRRRFLQSRPA CMHDWLCAEALAWSIQTASYL VTMQVNLTSLSSDTRDLSVVS NSGWVSSGSLVRFTIKTSSGEI KRTVPRILPDPPRSAIAEAPS EMPGHEVPVEEHFPEAGTNSGS PQGARKGDESMTKASDSSSPSC SSGPRVPKGAAPGSQTGKKQQS TALQASTLAPANLLPKAVHLA
25754	56122	A	25895	3	2356	
25755	56123	A	25896	1	2610	
25756	56124	A	25897	1	2496	
25757	56125	B	25898	1	3198	
25758	56126	A	25899	1	5274	
25759	56127	A	25900	1	585	
25760	56128	A	25901	1	2469	
25761	56129	A	25902	1	1914	
25762	56130	A	25903	1	2259	
25763	56131	A	25904	1367	1959	KLVTLHMDLSWR\NSGYQSQE T*K*PANRPVKRPH*GGI*FSRD QKRMLYLFVDQIRKSDGTLQE HDGICEIHVAKYAEIFGLTSAEA SKDIRQALKSF/DGEGSIYSR*A HGAA*PSHRKDRESADLGSDG QNDKGHQYLVFEANTGTENG YQGEESLFNKAYYGGGTNFFR KESHKLQQSACKLDAELSNGA LGFIE

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25764	56132	A	25905	1	2418	
25765	56133	A	25906	3	1918	
25766	56134	A	25907	1242	1463	
25767	56135	A	25908	1907	5097	TSKKIVKQAPVLTFTTA/LLAGG AIQAFAKENNHKAYKETYGVS HITRHDMLQIPKQQQNEKYQVP QFDQSTIKNIESAKGLDVWDSW PLQNADGTVAEYNGYHVVFAL AGSPKDADDTSIYMFYQKVGD NSIDSWKNAGR VFKDSDKFDA NDPILKDQTQEWSGSA TFTSDG KIRLFYTDYSGKHYGKQSLTTA QVNVSKSDDTLKINGVEDHKTI FDGDGKTYQNVQQFIDEGNEGI LPISPEPIKQDFRLLG
25768	56136	A	25909	610	2303	SLPNLDNAAICSSSSPTRTR*SL SEGATQAFAKEKYPHKHTKKR SGVFHITRHDMLQIPKQQQNEK YQVPQFDQSTIKNIESAKALDV WDSWPLQNADGTVAEYNGYH VVFALAGSPKDADDTSIYMFY QKVGDN SIDSWKNAGR VFKDS DKFDANDPILKDQTQEWSGSA TFTSDGKIRLFYTDYSGKHYGK QSLTTAQVNVSKSDDTLKINGV EDHKTI FDGDGKTYQNVQQFID EGNYTSGDNH TLRDPHYVEDK GHKYRGPLESPTHQAEFNPTS CVSSLGTLQGFPAPAWLALAH VHPLKHKSGGSNRLSAAIWGIK RKPARVCPGTGIHASSQIQGEW RTECAVGPKAKAKATAGWRR GNNQHISSTYDINRADTQVRR VNNYDIIVMSNSFNQSEHQTY ESIVIDSAPNLGIGTINVCAAD VLIVPTPAELFDYTSALQFFDM LRDLLKNVDLKGFPDVRILLT KYSNSNGSQSPWMEEQIRDAW GSMVLKNVRETDEVGKGQIR MRTVFEQAIDQRSSTGAWRNA LSIWEPVCNEIFDRLIKPRWEIR
25769	56137	A	25910	1	2103	

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25770	56138	A	25911	1	2124	MNMNIKKIVKQATVLTFTTALL AGGATQAFAKENNQKANKETY GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFFKR GAIFRVHKHAVNPMSPKCRPG GRQAYPLVNWEDRNGRSQKTV HTEGDMNMNIKKIVKQATVLT FTTALLAGGATQAFAKENNQK AYKET/YPKQQQNEKYQVPQF DQSTIKNIESAKGLDVWDSWP LQNADGTVAEYNGYHVVSALA GSPKDADDTSIYMFYQKVGDN SIDSWKNAGRVFKDSKDFDAN DPILKDQTQEWSGSATFTSDGR RSLESTTTAARPIWRKDVGGDQ TQEWSGSAPFTSDGKIRLFYTD YSGKHYGKQSLTTAQVNVSKS DDTLKINGVEDHKTIFDGDGKT YQNVQQFIDEGNYTSGDNHTL RDPHYVEDKGHKYLVEANTG TENGYQGEESLFNKAYYGGGT NFFRKESQKLQQSAAKKRDAEL ANGALGIIELNNDYTLKKVMKP LITSNTVTDEIERANVFKMNGK WYLFTDSRGSKMTIDGINSNDI YMLGYVSNSLTGPYKPLNTTG LVLQMGLDPNDVTWASLEPHE SFQWVRGLASSGVKLQTSVVL QLIKAMWTQRVSSSKVYCKEQ MNNASTMSKRTSAGCHCWQG
25771	56139	A	25912	1	3987	
25772	56140	A	25913	1	2235	

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25773	56141	A	25914	1	1950	MNMNIKKIVKQATVLTFTTALL AGGATQAFAKENNQKAYKETY GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDN SIDSWKNAGR VFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTGSLNSSKTEKY QVPHIDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDN SIDSWKNAGR VFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTDYSGKH YGKQS LTTAQVNVSKSDDTLKINGVED HKTIFDGDGKTYQNVQQFIDEG NYTSGDNHTLRDPHYVEDKGH KYL/VFEANTGTEEHPQPQERP RTQSFTSAFAERRECIPNPVADT KLSKIKTLRLATS YIAYLMDLL AKDDQNGEAEAFKAEIKKTDV KEEKRKELASKCLDLEQLGAS VEPTGNLRTKITKEKPRHTGPPE VVVPGCCPHRSRAYKSDKYAH TLTVTASQHAPPPPTHMEGFEL FHLPLCSPSQDAQTTGRTQMK PDHSPRPSHRVPQAKGNNVVIT SYMTNRGFFEDKKATFAPSFLM NIKGNKTSVVKN SILEQQQLTV
25774	56142	A	25915	1	2448	
25775	56143	A	25916	1312	1974	
25776	56144	A	25917	2	1778	
25777	56145	A	25918	1366	2673	
25778	56146	B	25919	1	1938	
25779	56147	B	25920	1	2262	
25780	56148	A	25921	1	2100	
25781	56149	B	25922	7145	7154	
25782	56150	A	25923	2085	11232	VNSEGSEPADRKKPVHTEEAM NMTIKKIVKQATVLTTLTALLA EGATQAFAKENNQKAYKETYG VSHITRHDMLQIPKQQQNEKYQ VPQFDQSTIKNIESAKGLDVWD SWPLQNADGTVAEYNGYHVVF ALAGSPKDADDTSIYMFYQKV GDNSIDSWKNAGR VFKDSDKF DANDPILKDQTQEWSGSATFTS DGKIRLFYTDYSGKH YGKQSLT TAQVNVSKSDDTLKINGVEDH KPILDGGGKTYQNVQQFI
25783	56151	A	25924	153	293	

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25784	56152	A	25925	420	687	
25785	56153	A	25926	242	491	WLHVQPLHDEHHCWI*YPADT DGVRPAFQRSPALSPHGCVPY TPARQGSVRSKGPCTSALLYVE CSIAAPDRKHSCHKSDQS
25786	56154	A	25927	2	113	
25787	56155	A	25928	779	862	NSTLPRCASTTFARY*AIPIKVFS ILP
25788	56156	A	25929	282	443	FSAGFLNLYAQKFPSSYPV** CYRPIYYPASDPCRNRLLYPAD VPYQALLD
25789	56157	A	25930	3	89	
25790	56158	A	25931	614	823	
25791	56159	A	25932	1229	1427	
25792	56160	A	25933	1965	2682	FAVPCRTSFGSIETVSHPGRDT* SA*AYRVQVDSHRPRLAHNVQ HRT*RGEVLLAGVPRHVAEREI ATLAGSFSLEQNIHNLPRDQG PGNTVSLEVESENITERFFVVG KRVSAEVVAAQLVKEVKRYLA STAAVGEYLADQLVLPMALAG AGEFTVAHPSCHLLTNIAVVER FLPVRFSLIETDGVTRQLLGVS YRILAMGHAFLIADIADMRNDGG WRDFQFSGNLVMDEPNRSAQT YIKLVKSRLGTTKR
25793	56161	A	25934	261	563	RHSRGRSALRQISPEC*IHVCSP PVQQLHPGYGNAIPLSYGHRNQ PDESDDAPVPPGWCQRYNLHQ KSTAHCGGYTIHADLVKTRCW LAPHRLPPGPGR
25794	56162	B	25935	1	1329	

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25795	56163	A	25936	761	3224	RGGAVTAKAPPDISAISALTAV KHGNCSSLTPLLNP GSDVIVC AEMDEQWGYVGAKSRQRWLF YAYDSL RKT VVAHVFGERTMA TLGR LMSLLSPFDVVIWMTDG WPLYESRLKGKLHSNEGDAVL LEIEQEVSSVDSSFNSTLGPTFN TRTIQNAV LVKTGETVVLGGLL DDFSKEQVSKVPLLGDIP LVGQ LFRYTSTERAKRNL MVFIRPTII RDDD VYRSLSK EKYTRYRQEQ QQRIDGKSKALVGSEDL PVLDE NTFN SHAPAPSSRWALAQRIGV SRVDMQQHVRRPPVNLSPKRE NVIAGYLSNSVARKQRHIQTGT VFHQLMNLLRDGINIIFMNFKY QFIVYLHFL LSPKWV MYNRKC VNGMLLIASVPATWMLSRYS SHRWIAKEIPMGKTQPLPILLG /GRRIGLALA\WHFIIQKQP VIV SYRTHYPAIDGLINAGAQC IQA DFSTTDGVMAFADELLKSTHG LRAILHHASAWMAEKP GAPLA DVLACMMQIHVNTPYLLNHAL ERLLRGHGHAASDIHFTDYVV ERGS DKHIA YAASKAALDNMT RSFARKLAPEVKRQTATRAGH RGINQLSRYRRLARQNQRR MVELRSLRFMYRHRPRSFVLW QATRLHRLNIAVRHRKPDARPL PAIQRNTDIAIKQPKRAVITGNH HRSTFVPTRLAQTGSEIRRHAM
25796	56164	A	25937	3	543	
25797	56165	A	25938	209	343	LSPPMSSFLATVFRSIAWLLTAK SIRYRTT*RWIRCAAVWLTMD
25798	56166	A	25939	547	640	
25799	56167	A	25940	174	583	
25800	56168	A	25941	2001	2610	DVLVRKHNGHWTVELYSDSIP RLQINQHYASMCNNARNDGDS QFIRSNLQDAKWLIKSLERND TLLRVSR CIVEQQQAFFEQ GEE YMKPMVLADIAQA VEMHESTI SRVTTQKYLHSPRGIFELKYFFS SHVNT EGGGEASSTAIRALVKK LIAAENPAKPLSDSKLTSLSEQ GIMVARRTVAKYRESLSIPPSN QRKQLV
25801	56169	A	25942	329	484	TRQLSLLVRMTL*AFVRKRRSS LA*KPLWSWLS SVKSQPGWKL MLARWKSF

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25802	56170	A	25943	1	1785	
25803	56171	A	25944	2493	2696	
25804	56172	A	25945	1	1861	
25805	56173	A	25946	456	700	
25806	56174	A	25947	1	2413	MPVIKVRENEPFDVALRRFKRS CEKAGVLAEVRRREFYEKPTTE RSRYDLVDRNNNIVLEYRKKE VRLTLTDPVTGKSGEVKSLSVSS LQTKYALKGYNVEATALEAAG GKVVTTGKDILVRKPTLDLPLE VRRKMWFKPFMQSYLVVFIGY LTMYLIRKNFNIAQNDMISTYG LSMTQLGMIGLGFSTITYGVGKT LVSYYADGKNTKQFLPFMLILS AICMLGFSASMGSGSVSLFLMI AFYALSGFFQ\STGGSCSYSTIT KWTPRRKRGTF LGFWNISHNL GGAGAAGVALFGANYLFDGH VIGMFIFPSIILIVGFIGLRYGS DSPESYGLGKAEELFGEEISEED KETESTDMTKWQIFVEYVLKN KVIWLLCFANIFLYVVRIGIDQ WSTVYAFQELKLSKAVAIQGFT LFEAGALVNGCSYAQGMWG KTAETSDLQDLLIAALQGLSAW AVKAREYGIINHVDVSFAPRAF FSTLTNVNFDSPRIVGYAREAIA LREALKAQCLAVDANARVDNP MADLQLVSDDL GELQRQAAEF TPNKDKAAIGENILGLRLLCLY GLKVFNGREDQLDSCYHG NRQ LRGSLRLLFLAFIRQRLRDLIITA HRVIRVNRQHAALGVKHCRLP GITGNRIQRQATQYRDRRG TGQ NQC MRGDMQQLFADIANVAN TFAQIIAGRGRKFGANLLHIAD
25807	56175	B	25948	1	3738	
25808	56176	A	25949	1518	2124	DCFCGSRHDKLPSAHQCSAKPG SDRFWRSHADAAYAHDGGIQP VLCASRSNGCLQPKCHTIVSG RCPLQQIGSSVFP SGDAANVAS FSCACDNAGSAQHRTL LLGKQ FFNCRNAFHFNRSRQTALKSG ISWVTFQLILKQQRPVIMTKM AIGFRKV*SQRNIRHLLVYIFKF ADGGCFVVIFLCLQRFIETGINN KMG
25809	56177	C	25950	1	747	
25810	56178	A	25951	168	332	CAWRAVCAAW/PTGASC/CNN DRFVFQILRSFEHDNSEDKPGP GMPPHGWRQTQFWGG

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25811	56179	A	25952	1	2706	
25812	56180	A	25953	1	1062	
25813	56181	A	25954	1	855	
25814	56182	C	25955	1	2412	
25815	56183	A	25956	279	713	RCDAAGAVLHSAAGLLRHCGY WQRGKPDWRSRPGNYADRIC RRWFCAGGVGDRQYELCQLLA YTVSATRRGTGYCLYRDSRGR TGLPVV*HLSGAGLYGRCRFAG VRWCVRHYRRTATSGIPAGDY GGRVRGRNAFCHPAVAP
25816	56184	A	25957	1	769	MDFAETELEFIKFWGDIITNKLN EALAAQGDNVVINLASDEYFKS VKPKKLNAEIIKPVFLDEKNGK FKIISFYAKKARGLMRSFIIENR LTKPEQLTGFNSEGYYFDEDSSS NGELVFKRYEQRAECRIVTRHL SFSGDVCLDHDRDDHEELSY GGAAVA AVL VIEPNKLA FDGS GYLAWEGLICMQEIGKC/YRRT SGDCA*VAGRAQTG*VSGWAL SRGKNQPGVGCEAGARRHARE ARIGDERHRLAPRDML
25817	56185	B	25958	1	2472	
25818	56186	A	25959	4300	4492	DCGGVRSQRPDQR*DWNR*GA GGESDS*SLATGGQAAEGVAV WRYSARWR*PLFAGRCARAGG D
25819	56187	B	25960	49	3000	
25820	56188	A	25961	266	812	LLRWRPGALALGHKL VAGEIR QQRMDAWRAACLQNPQGILCC ARGGQRSHIVQSWLHAAGIDY PLVEGGYKALRQTAIQATIELA QKPIVLIGGCTGSGKTLVQQQ ANG/VDLEGLARHRGSAFGRTE DELGKLAQTSTSSPAHWRETSK CGGFLCPIFLT NMRTPLPVCAT VLPYLA IATV
25821	56189	A	25962	761	874	
25822	56190	A	25963	2	304	MAAYGSGIFAQTYIEAFGISTIQ PASCSPVNQYITAAFVLFGNVA HALLIALQRRNRRLQRRKGA VIVIAFNSTSGA/VPAFCCQP*S RYASPPCCSFSTA
25823	56191	A	25964	109	777	
25824	56192	A	25965	5	187	ITHKKPPPSWRSALLPAAGVFS RRYMPALCE*HWAS*RMRAEA TETFS DCTMPIIGMMMS
25825	56193	A	25966	1	711	
25826	56194	A	25967	757	1026	
25827	56195	A	25968	1	750	

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25828	56196	A	25969	1	1065	MKVLEKRNNASSEPEEKNEIRA AREHAGFTLQELVCLGASGRK VQGEAANAEEEEVAAGELDNIA KITNEGSYTEQQIFNEGYMWLS TLMKIKENKISCSWATQSHFQG SIDAGELEHLTPERVWKETESA LTTRNPQVFFQVLRDCGALRVL FPEIDALFGVPAPAKWHPEIDT GIHTLMTLSMAAMLSPQVDVR FATLCHDLGKGLTPPELWPRHH GHGPAGVKLVEQLCQRLRPVN EIRDLARLVAEFHDLIHTFPMML NPKTIVKLFDSDAWRKPRQVE QLALTSEADVGRGTGFESADYP QGRWLREAWVAQSVPTKAV VEAGFKGVEIREELTRRRIAAG LRG*VSRSHPLPNAEPKNH/AS NYLIPSMPGVNRSVSSNWR*PA RLTCAAE/HGFESADYPQGRWL REAWVAQSVPTKAVVEAGFK GVEIREELTRRRIAAGLRGMPT
25829	56197	A	25970	2373	2597	SADDKADSV*YLRLASA*TNS CRPYRRPSAPVCRRAPAI*G*TP QNYGPPSSCPAGGFWRYPVDPP RFSGFVH
25830	56198	A	25971	2616	2777	TSVRKRFTLSGKPVAKAGRKR PPPCR*TPTANGHPKPCRPPVW CHPAPVARP
25831	56199	B	25972	1	1449	
25832	56200	A	25973	1076	1477	CAVRRSITWCKLSSKTPVRPLR PSTYRDCLTVSIALTPPASEKVK RRPVPAVKSAMKVPPGAAQSR KRVWLVSFPPTCEFLASNSRGK KISVLSALS PRWTS*PKARWA ARRLTNNLVVRH*TATSVLMK KK
25833	56201	A	25974	1	3552	
25834	56202	A	25975	196	493	KRCRFADRPDGPGRQGTAAATT FGGMSFVTILPAPIELSPMVT GLITT*LPIQTLLPIVIGKEYISPF FLNSWCTGCPVTERVTLGAIST LSPIVTV

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25835	56203	A	25976	1	3917	MTDKHQHRYVAAPGPFVGD KCQVAGDPLMLRRALSNLLSN ALRYTPTGETIVVRCQTV DHLV QVIVENPGTPIAPEHLPRLFDRF YRVDP SRQRKGE GSGIGLAIVK SIVVAHKGTVAVTSDARGTSGL DDFFIDVVYWVRRIKRKLSVYR RIPRMSYRELYKPDEQPLAIMV PAWNERASSAIWRAGGTTLDT KFLFVGLPGPILGCKVPFEFLE VACPPSGGPVGPWRPWRPCGA AAAICASPAAILAPT
25836	56204	A	25977	3	292	GDMQRLNSLFC/SVAYSVLEQP DEDEGRDSINIVNPSGRPIIVSSG ATPAVREYAAHGFLYGLRQR VGEVRVDLQREQIYASKPCGST IGISLVVR
25837	56205	A	25978	2	181	SARLR/RSKHRFRILNRRYSHA HS\MLGDMQRLNSLFC/SVAYS VLEQPDEDEGRDSINIVN
25838	56206	A	25979	1	2781	
25839	56207	A	25980	1	2554	
25840	56208	A	25981	635	741	
25841	56209	A	25982	91	501	LWIRLAKRSGKAIKERRDFIRL CTHRVRQGTALLRLFQHSNGN RLMKLDNQHLRLRISNHRAFHF RHRTTVKQSQQTFRYPWLYRV RHWGQKPKTDNFHGLLARIFG NSRSKTWGENR*EHSVLEQPDE DEGRDEY
25842	56210	A	25983	2153	3062	APVMPPERLPVIAVRQYPTANC CSDCLAAASRFFLASVAAP EQT DADTRRSRVAVGRKRTRNSA NQPRPRRDWRELQLMDRLARV AQARASFAARETLRIGDAMEQ MMEGLNKVMHGEPRQEKELR KLADDINVLTYAIKLYLARM PK EELAEESRRWAEIEMSLNLEQ ASDIVERMGELVDKSWAAR RAFSLDGLKELDALYEQLLSNL KLAMSVFFSGDVTSARLRRSK HRFRILNRRYSHAHVDR LHQQ NVQSIETSSLHLGLLGDMQRLN SLFCSVAYSVLEQPDEDEGRDE
25843	56211	A	25984	135	308	KLSLRLGIFPRPSLFPRPTSPST PAPAS*PAPS*VSPSPRTATPSCP TSYSSFPCH

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25844	56212	A	25985	3	663	ARGKKPPRRGKEDFWDLSIATR VSVNPIKFPVEA *PFLKPLQQV S\GPLGGRLPLPIPGNLLLQVAD GTLSLTGTDLEMEMVARVALV QPHEPGATTVPARKFFDICRGL PEGAEIAVQLEGERMLVRSGRS RFSLSLTPAADFPNLDDWQSEV EFTLPQATMKRLIEATQFSMAH QDVRYYLNGMLFETEGEELRT VATDGHRLAVCSMPIGQSLPSH
25845	56213	A	25986	1	1077	
25846	56214	A	25987	1	1323	MHSGTFNPQDFGWQGLTLTPA AAIHIRELEILDEYGIPNAWQGE TNFWGSTAVSIDRLAAYKDVD VLCFDHDNSKMDALMATPL WQAMPFVRAGRFRQVPVWF YGATLSAMHFVRVLDNAIGVIV ATALTWMNFSQALPRSQWAQ AAWSPDIDVIEQMIFHYSLLPRL AISLLVGAGLGLDVRYYLNGM LFETEGEELRTVATDGHRLAVC SMPIGQSLPSHSVIVPRKGVIEL MRMLDGGDNPLRVQIGSNNIR AHVGDFIFTSKLVDGRFPDYRR VLPKNPDKHLEAGCDLLKQAF ARAAILSNEKFRGVRLYVSENG LKITANNPEQEEAEILDVTYSG AEMEIGFNVSIVLDVLNALKC ENVRMMLTDSVSSVQIEDAAS QSAAYVVMMPMRLEGSPPLGNP EFQKISSPCALYIALCSKARHHT GRYLGLCGL
25847	56215	A	25988	211	475	GAIGVFTAGKLTRASVYHQAR RFMQRET VWLVEDEQGIADTL VYMLQQEGFAVEVFERGLPVL DKARKQVPDVMILDVGLPDISG FELCRQLLALHPALPVLFLTR SEEVDRLGLGLEIGADDYVAKPF SPREVCARVRTLLRRVKKFSTP SPVIRIGHFELNEPAAQISWFD PLALTRYEFIVLKTLLKSPGRV WSRQQLMDSVWEDAQDTS VVAFATILQGISRDLRRRILPYCI RCRRERCTGTALWQ

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25848	56216	A	25989	1661	2499	QMAHDEQWLTPRILQTAATLC NQNA PRDGSPLWLGVDLGTC VVSMVVD RDGQPVAVCLDWA DVVRDGIWDFFGAVTIVRRHF DTLEQQFGRRFSHAATSFPPGT DPRISINVLESAGLEVSHVLDEP TAVADLLQLDNAGVVDIGGGT TGIAIVKKGKVTYSADEATGGH HIFLTFAGNRRISLEEAEQYKRG HGEEIWPAVKPVYEKMADIVA RHIEGQGITDLWLAGGSCMQP GVAELFRKQFPALQVHLPQHSL FMTPLAIASSGREKAEGLYAK
25849	56217	A	25990	915	1518	PSGHAPDLNGAPATAHQPGGR YPAPRSVRRATDNGYPAGDPLE WRSTAQVFVSSRRRVSLPNDRK TVLTRCWSAAH*FALPAPLCRD RTGERKNRRFHTPTRCGRGFCP APAASRRCAGRRRGDASGRAY RRPAPSHCPVQ*RGHRKSTTTSS TSRRRPGQSARPYSGPEYRE*Y CSAQRFFHNDGSRPPVVRQAGR AQFP
25850	56218	A	25991	1	1254	
25851	56219	A	25992	675	835	VRWCWIFPSQ*TLFQKRAGHA APSADVLHESCQHFLNLLNRLG RHYDFGEGEP

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25852	56220	A	25993	1	2255	MRESPTRDDSKNTVNTTIRIRIH NSYTEQLQIVTNSYCTKQWHV HHTAKPYAHIQRPATPDAQLTK MQEEEEVEPEPEMEAEVEPEPN PEEAETESSESMNQRDVRGTVRI VLKTFNNCRDTVFAFEVNNT VLLVATTDMTSGDTAIVVTTT GFAVFFQQRSKSAANEVQILAF FQGDVSFFPVATTTDTLSVTFN FPFNYQGVNDFDFDKQLHSS FDFCFGRVFSNFYELHGARAHA CIPPSACIGEVLETSSFDIRVSVY RSSCVCVRLRESSTGDRYFGGL SLQMMRKATGLTDITSDTPGNT DDQRWHPEHGLTQRMQKEQE LVKEPEGAARDGDGEAEAWGE VKAKSSGCVGTRASSHLFRCNV CELHFKESELLQHPCTPSGERP FRCGECQKAFKRPSGLRQHER THSAERPFCDLCPMGFKQQY ALMRHRRTHKTEEPFKCGLCE KGFGQPSHLLYHQHVHTLETLF KCPVCQKGFQSAELLRHKCLP GAAERPFCPCVNKAYKRASA LQKHQLAHCAAAEKPLRCTLC ERRFFSSSEFVQHRCDPAREKPL KCPDCEKRFKYASDLQRHRRV HTGEKPYKPCNCDKAFKQREH LNKHQGVHAREQQFKCVWCG ERFLDVALLQEHSQAHSAAAA AAEGAYQQTLLHHPRRQQQQY WQLLCARNNVKLCMHILFSPH
25853	56221	A	25994	98	596	YSGIIMAQSKLYPVVMAGGSGS RLWPLSRVLYPKQFLCLKGDLT MLQTTICRLNGVECESPVVICN EQPRFIVAHQMRQLNELSENIL EPAGRTTAPTIAAALANRHS PESAPLMLVLATDHVIANEDAV RAPVK\NAIPYPKKGKLVTFGIG LDGRVPRYNM
25854	56222	A	25995	3	554	
25855	56223	A	25996	1	222	

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25856	56224	A	25997	1	1043	MKVKVLSELLVPALLVAGAANA AEVYNKDGKLDLYGKVDGL HYFSDNKDVDGDQTYMRLGFK GETQVTDQLTGYGQWEYQIQG NSAENENNSWTRVAFASLKFK DVGSFDYGRNYGVVYDVTWS TDVLPEFGDITYGSDNFMQQR GNGFATYRDTDFGLVPTLHP ARVCCALRELKDAGADRIWYI ADAFRAGLSVDGVFNLTNIDR WFLHINRAKDKNHMIIISDAEK AFDKIQPFMLKTLNKLIGDGT YFRIIRAIYDKPTANIILNGQKLE AFPLKTGTRQGCPLSPLLFNIVL EVLARAIQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQN LLKLISDFSKVSGYKINVQKSQT FLYTNNRQTESQIMSELPFTIAS RRIKYLGIQ*IRY*WDFQNNK SYL*QTHSQYHTEWAKTGSIPF ENWHKTGMPSLTAPIQHSVGSS GQGNQAGEGKNGYSIRKRGSQI VPVCRRHDCLSRKPHRLSPKSP
25857	56225	A	25998	1	3339	
25858	56226	A	25999	1440	1880	AAQHASVYLYQNRIRGAVPPV RFFHADQRTRRDGADGKQRHA TETLCRIAEKISSSREQDWLHCD ERQSLYEWYW*PYPHSGRSQK EKRQT*TAILDAYCADCFRCGR GVFARRERTKRDRPGNAGTG GDCPCWLRRQYECVRL
25859	56227	A	26000	1	2277	
25860	56228	A	26001	1	1845	
25861	56229	A	26002	56	113	QQQPNPTRDQLQLAILHNIRGIR KIYG*IQSATREAG*GHSPQY
25862	56230	C	26003	1	2317	
25863	56231	A	26004	3	2168	
25864	56232	A	26005	670	2541	
25865	56233	A	26006	98	944	YSGIIMAQSKLYPVVMAGGSGS RLWPLSRVLYPKQFLCLKGDLT MLQTTICRLNGVECESPVVICN EQHRFIVAEQLRQLNKL TENIIL EPAGRNTAPAIALAALAAKRHS PESDPLMLVLAADHVIADDAF RAAVRNAMPYAEAGKLVTFGI VPDLPETGYGYIRRGESVAGEQ DMVAFEVAQFVEKPNLETAQA YVASGEYYWNSGMFLFRAGRY LEELKKYRPDILDACEKAMSAV DPDLNFIRVDEEA/FLACPEESG DYAAMGRTGDVAVPLSLGAH